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RESULT 2
 US-09-766-678-1
 Sequence 1, Application US/097666678
 Patent No. US20020081650A1
 GENERAL INFORMATION:
 APPLICANT: Ullrich, Axel
 Risaau, Werner
 Millauner, Birgit
 Gazic, Aviva
 Levitzki, Alex
 TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
 Endothelial Growth Factor
 NUMBER OF SEQUENCES: 6
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Pennte & Edmonds
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 10036-2711
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

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Query Match	Similarity	Score	DB	Length
Best Local	99.9%	Pred. No. 0;		
Matches	Conservative	0;	Mismatches	0;
			Indels	4;
			Gaps	4

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Dp	137	CGGCTGAGCCAGGGCGCGGGTGC	CCCCCGCTTCCCGGTTTTC	CGCTGCGGGGGCCAT		196
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Dp	197	ACCGCTCTGTGACTTCTTTG	CGGGCCAGGACGAGAGAGAGT	CTGTGCTGAGAACT		256
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Dp	377	CCCCCAAGCTCAGACACAGAAAG	CATTA	CTGCAATTTTGGCAATACAA	CCCTT	436
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Dp	437	TTACTTGTAGGGGACAGCGGGA	CTGGA	CTGGCTTTGGCCCAATGCTCAG	CGGTGATTCG	496
Qy	419	AGGAAAGGGTATTTGGTGA	CTGATATCGGCGGTGTGACAGTAT	CTTTCTGCAAAACACTCA		478
Dp	497	AGGAAAGGGTATTTGGTGA	CTGATATCGGCGGTGTGACAGTAT	CTTTCTGCAAAACACTCA		556
Qy	479	CCATTCCAGGGGTGTTGAAATGA	TACTGAG	CCCTAACAGTGTCTG	TACCGGGAGCTCG	538
Dp	557	CCATTCCAGGGGTGTTGAAATGA	TACTGAG	CCCTAACAGTGTCTG	TACCGGGAGCTCG	616
Qy	539	ACATAGCTTCACTGTTTATATG	TTATGTTTTCAGATTACAGATCA	CACATTCATTCGCTCG		598
Dp	617	ACATAGCTTCACTGTTTATATG	TTATGTTTTCAGATTACAGATCA	CACATTCATTCGCTCG		676

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 DB 677 TCAGTACGAGATGGATCGTGTACATCAACGAGAACAAACAAACCTGTGTATCC 736
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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FILING DATE: 15-Mar-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678
FILING DATE: 25-Jan-2001
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5470 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 286..4386
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-799-782-1

Query Match      99.2% Score 5346; DB 9; Length 5470;
Best Local Similarity 99.9% Pred. No. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;
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RESULT 5
 US-09-919-408-5
 ; Sequence 5, Application US/09919408
 ; Patent No. US2002007207A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lemischka, Ihor R.
 ; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 ; RECEPTORS AND THEIR LIGANDS
 ; NUMBER OF SEQUENCES: 10
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Imclone Systems Incorporated
 ; STREET: 180 Varick Street
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 10014
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/919,408
 ; FILING DATE: 31-Jul-2001
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/977,451
 ; FILING DATE: <Unknown>
 ; APPLICATION NUMBER: US 07/906,397
 ; FILING DATE: 26-JUN-1992
 ; APPLICATION NUMBER: US PCT/US92/05401
 ; FILING DATE: 26-JUN-1992
 ; APPLICATION NUMBER: TW 81102961
 ; FILING DATE: 15-APR-1992
 ; APPLICATION NUMBER: US PCT/US92/02750
 ; FILING DATE: 02-APR-1992
 ; APPLICATION NUMBER: US 07/813,593
 ; FILING DATE: 24-DEC-1991
 ; APPLICATION NUMBER: US 07/793,065
 ; FILING DATE: 15-NOV-1991

APPLICATION NUMBER: US 07/728,913
 FILING DATE: 28-JUN-1991
 APPLICATION NUMBER: US 07/679,666
 FILING DATE: 02-APR-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Felt, Irving N.
 REGISTRATION NUMBER: 28,601
 REFERENCE/DOCKET NUMBER: LEM-3-7P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-645-1405
 TELEFAX: 212-645-2054
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5406 base pairs
 TYPE: nucleic acid
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Query Match 99.0%; Score 5336.8; DB 3; Length 5406;
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RESULT 6
US-09-872-136-5
Sequence 5, Application US/09872136
Patent No. US20020119545A1
GENERAL INFORMATION:
APPLICANT: Lemischke, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSER: Imclone Systems Incorporated
STREET: 180 Varlick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/872,136
FILING DATE: 01-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/208,786
FILING DATE: <Unknown>
APPLICATION NUMBER: US/09/021,324
FILING DATE: <Unknown>
APPLICATION NUMBER: US/07/977,451
FILING DATE: 1992-11-19
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TM 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992

APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
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HYPOTHEICAL: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
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FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-872-116-5

Query Match 99.0%; Score 5336.8; DB 3; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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DB 1320 GCCCATTTGAGTCAACTACAAATGATTTGTGGAGTGAATCTCAACATCATGGAAGTAC 1379
QY 1380 TGAAGAAGATGACAGAAATCAACAGGTATCTTCAACCAACCCATTTCAATGAGAAACA 1439
DB 1380 TGAAGAAGATGACAGAAATCAACAGGTATCTTCAACCAACCCATTTCAATGAGAAACA 1439
QY 1440 GAGCCATGATGTCTCTGTGTGTGATATGTCCACCCCAAGTCCGTGAGAAAGCTTGTAT 1499
DB 1440 GAGCCATGATGTCTCTGTGTGTGATATGTCCACCCCAAGTCCGTGAGAAAGCTTGTAT 1499
QY 1500 CTGCGCTATGATTTCTTACAGATATGAGGACCATGACAGATTTGACATGACAGTCTAGC 1559
DB 1500 CTGCGCTATGATTTCTTACAGATATGAGGACCATGACAGATTTGACATGACAGTCTAGC 1559
QY 1560 CAACCTTCCCTGACCAATCCAGTGTACTGGACGTAGAAAGCTCTCTCTACAG 1619

Db	1560	CAACCTCCCTGGCAACATCAGTGTACTGGAGCTTAAGAAAGCTCTCTCAAG	1619
Oy	1620	ACCCGGCAAAACAAGCCCGTATGCTTGTAAAGATGAGACAGGTGAGATTTCCAGGG	1679
Db	1620	ACCGGGCAAAACAAGCCCGTATGCTTGTAAAGATGAGACAGGTGAGATTTCCAGGG	1679
Oy	1680	GGGAAACAAGATCGAAGTCAACAAAAACCAATATGCTGTATGAAGAAAAAACAAC	1739
Db	1680	GGGAAACAAGATCGAAGTCAACAAAAACCAATATATGCTGTATGAAGAAAAAACAAC	1739
Oy	1740	TGTATGTACGCTGGTCAATCAAGCTGCCAAGCTGACGCTTTGTAACAATGTGAAGCAT	1799
Db	1740	TGTATGTACGCTGGTCAATCAAGCTGCCAAGCTGACGCTTTGTAACAATGTGAAGCAT	1799
Oy	1800	CAACAAACGGGACAGAGAGAGAGGGGTATCTCTTCATGTGATCAAGGGTCTGTAAAT	1859
Db	1800	CAACAAACGGGACAGAGAGAGAGGGGTATCTCTTCATGTGATCAAGGGTCTGTAAAT	1859
Oy	1860	TACTGTGCAACTGTGCTGCCAAGCCACATGAACAGAGAGTGTGTCCGTGTGTCACTGC	1919
Db	1860	TACTGTGCAACTGTGCTGCCAAGCCACATGAACAGAGAGTGTGTCCGTGTGTCACTGC	1919
Oy	1920	AGACGAAATACGTTTGAAGACTTCACGTGGTACAAGTTGGCTCAACGCAACATCGT	1979
Db	1920	AGACGAAATACGTTTGAAGACTTCACGTGGTACAAGTTGGCTCAACGCAACATCGT	1979
Oy	1980	CCACATGGGCGAATACATCAACCAAGTTGGAAGAACTGGATGCTCTTTGGAACATGA	2039
Db	1980	CCACATGGGCGAATACATCAACCAAGTTGGAAGAACTGGATGCTCTTTGGAACATGA	2039
Oy	2040	TGGCAACATGTTTCTTAACAGACAAATGACATCTTGATTTGGCAATTCAGATGCTC	2099
Db	2040	TGGCAACATGTTTCTTAACAGACAAATGACATCTTGATTTGGCAATTCAGATGCTC	2099
Oy	2100	TCTGCAAGAACAGGCGCATATGTTTGTCTGTCTCAAGATTAAGAAAGCAAGAAAGACA	2159
Db	2100	TCTGCAAGAACAGGCGCATATGTTTGTCTGTCTCAAGATTAAGAAAGCAAGAAAGACA	2159
Oy	2160	TTGCTGGTCAAAACGCTCATACCTTAAGACGATGGCAACCCATGATCAACCGAAATCT	2219
Db	2160	TTGCTGGTCAAAACGCTCATACCTTAAGACGATGGCAACCCATGATCAACCGAAATCT	2219
Oy	2220	GGAGATTCAGACAAACAACCATTTGGCGAGACCATTTGAAGTGACTTCCACAGATCTGAAA	2279
Db	2220	GGAGATTCAGACAAACAACCATTTGGCGAGACCATTTGAAGTGACTTCCACAGATCTGAAA	2279
Oy	2280	TCTTACCCACACATTACATGTTTCAAGACAAACGACGCTGTAGAAATTCAGAGCAT	2339
Db	2280	TCTTACCCACACATTACATGTTTCAAGACAAACGACGCTGTAGAAATTCAGAGCAT	2339
Oy	2340	TGTACTAGAGATGGGAAACCGGAACTGACCTATCCGAGGGTGTGGAAGGATGAGG	2399
Db	2340	TGTACTAGAGATGGGAAACCGGAACTGACCTATCCGAGGGTGTGGAAGGATGAGG	2399
Oy	2400	CCTTACACCTGCGACGGCTGCAATGCTTGGCTGTGCAAGACGGAGACGCTCTTCAT	2459
Db	2400	CCTTACACCTGCGACGGCTGCAATGCTTGGCTGTGCAAGACGGAGACGCTCTTCAT	2459
Oy	2460	AATAGAAAGTCCCGAGGAAAGACCAACTTGAAGTCAATATCCTCTGCGCACTGCAT	2519
Db	2460	AATAGAAAGTCCCGAGGAAAGACCAACTTGAAGTCAATATCCTCTGCGCACTGCAT	2519
Oy	2520	GATTGCCATGTTCTTTGAGCTCTTCTTGTCAATGTCTTACGACCGTTAAGCGGCGCA	2579
Db	2520	GATTGCCATGTTCTTTGAGCTCTTCTTGTCAATGTCTTACGACCGTTAAGCGGCGCA	2579
Oy	2580	TGAAGGGGAATGAAGACAGGCTACTTGTCTATTTGTCAATGATTCAGATGAATTTGCCCT	2639
Db	2580	TGAAGGGGAATGAAGACAGGCTACTTGTCTATTTGTCAATGATTCAGATGAATTTGCCCT	2639
Oy	2640	GGATGAGGCTGTGAACGCTTGGCTTAATGATGACAGCAAGTGGAAATTCACAGGACCG	2699

Db	2640	GGATGAGCGCTGTGAACGCTTGCTTATGATGCACGAATGGGAATTTCCCAAGGACCG	2639
Qy	2700	GCTGAAACTAGGAAAACTCTTTGGCCGCGGTGCCCTTCCGCCAAGGATTTGAGCAGACGC	2759
Db	2700	GCTGAAACTAGGAAAACTCTTTGGCCGCGGTGCCCTTCCGCCAAGGATTTGAGCAGACGC	2755
Qy	2760	TTTTGGAATTGACAAAGACAGCGACTTGGAAAAACAGTAGCCGCTCAAGATGTTGAAGAAGG	2819
Db	2760	TTTTGGAATTGACAAAGACAGCGACTTGGAAAAACAGTAGCCGCTCAAGATGTTGAAGAAGG	2819
Qy	2820	AGCAACACACAGCCGAGCATTCGAGCCCTCATGTCTGAACTCAAGATCCTCATCCACATTGG	2879
Db	2820	AGCAACACACAGCCGAGCATTCGAGCCCTCATGTCTGAACTCAAGATCCTCATCCACATTGG	2879
Qy	2880	TCACCATCTCATGTGAGTGAACCTCTTAGGCGCCCTGCACAAAGCCGGAGGGGCGCTCAT	2939
Db	2880	TCACCATCTCATGTGAGTGAACCTCTTAGGCGCCCTGCACAAAGCCGGAGGGGCGCTCAT	2939
Qy	2940	GGTGAATTGTGAATTTCTGCAAGTTTGGAAAACTTACATTACTTACCGGGCAAGAAAA	2999
Db	2940	GGTGAATTGTGAATTTCTGCAAGTTTGGAAAACTTACATTACTTACCGGGCAAGAAAA	2999
Qy	3000	TGAATTTGTTCCCTTTAAAGACAAAGGGGACGCTTCCGCCAGGGCAAGCATACGTTGG	3059
Db	3000	TGAATTTGTTCCCTTTAAAGACAAAGGGGACGCTTCCGCCAGGGCAAGCATACGTTGG	3059
Qy	3060	GGAGCTCCCGGGATCTGAAAAACGCTTGACAGCATCAACAGACGCCAGACCTCTGC	3119
Db	3060	GGAGCTCCCGGGATCTGAAAAACGCTTGACAGCATCAACAGACGCCAGACCTCTGC	3119
Qy	3120	CAGCTCAGGCTTGTGTGAGAGAAATCGCTCAGTATGTAGAGAGAGAAGAACTTCTGCA	3179
Db	3120	CAGCTCAGGCTTGTGTGAGAGAAATCGCTCAGTATGTAGAGAGAGAAGAACTTCTGCA	3179
Qy	3180	AGAACTGTACAGAAGCTCTTGACCTTGAGCATCTCATCTGTTACAGCTTCCAAGTGGC	3239
Db	3180	AGAACTGTACAGAAGCTCTTGACCTTGAGCATCTCATCTGTTACAGCTTCCAAGTGGC	3239
Qy	3240	TAAAGGCACTGAGTCTCTTGAGCATCAAGGAACGTGATCCACAGGGACCTGGAGGACGAAA	3299
Db	3240	TAAAGGCACTGAGTCTCTTGAGCATCAAGGAACGTGATCCACAGGGACCTGGAGGACGAAA	3299
Qy	3300	CATTCTCCTATCGGAGAAAGATGTGTGTTAAGATCTGGACTTGGGCTTGGCCGGGACAT	3359
Db	3300	CATTCTCCTATCGGAGAAAGATGTGTGTTAAGATCTGGACTTGGGCTTGGCCGGGACAT	3359
Qy	3360	TTATTAAGACCCCGGATTAATGTCAAGAAAAAGAGATGCCGACTCCCTTTGAAGTGATGGC	3419
Db	3360	TTATTAAGACCCCGGATTAATGTCAAGAAAAAGAGATGCCGACTCCCTTTGAAGTGATGGC	3419
Qy	3420	CCCGGAAACCTTTTTTGACAGAGATACAAATTCAAGGAGATGTGTGGCTTTCCGGTGT	3479
Db	3420	CCCGGAAACCTTTTTTGACAGAGATACAAATTCAAGGAGATGTGTGGCTTTCCGGTGT	3479
Qy	3480	GTTCGCTCGGGAATATTTTCTTAGAGGCTCCGCCATACCCTCGGGGTCAAGATTTGATGA	3539
Db	3480	GTTCGCTCGGGAATATTTTCTTAGAGGCTCCGCCATACCCTCGGGGTCAAGATTTGATGA	3539
Qy	3540	AGAAATTTGTAGAGATTGAAAGAAAGAACTAGANTCGGGCTCTGACTTACACTACCC	3599
Db	3540	AGAAATTTGTAGAGATTGAAAGAAAGAACTAGANTCGGGCTCTGACTTACACTACCC	3599
Qy	3600	AGAAATGTACAGACCAATGTCTGACTCTGGCATGAGAGACCCCAACAGAGACCTCTGTT	3659
Db	3600	AGAAATGTACAGACCAATGTCTGACTCTGGCATGAGAGACCCCAACAGAGACCTCTGTT	3659
Qy	3660	TTCAAGATGTGTAGAGATTGGGAAAACTTCCTGCAAGCAAAATGCGACAGAGATGGCAA	3719
Db	3660	TTCAAGATGTGTAGAGATTGGGAAAACTTCCTGCAAGCAAAATGCGACAGAGATGGCAA	3719
Qy	3720	AGACTATATTGTTTCCCAATGTCAAGACACTGAGCATGAAAGAGATTCTGACTCTC	3779
Db	3720	AGACTATATTGTTTCCCAATGTCAAGACACTGAGCATGAAAGAGATTCTGACTCTC	3779

OY	3780	CCTGCTACCTCAACCTGTTTCTCTGTATGTGAGGAAAGAGAAAGTGTGCCACCCCAATTTC	3835
Db	3780	CTGCGCTACCTCAACCTGTTTCTGTATGTGAGGAAAGTGTGCCACCCCAATTTC	3839
OY	3840	TTATGACAAACAGCAGGAGATCACTATATCTCCAGAACAGTAAGCCAAAGCCGCC	3859
Db	3840	TTATGACAAACAGCAGGAGATCACTATATCTCCAGAACAGTAAGCCAAAGCCGCC	3899
OY	3900	AGTGAAGTAAAAACATTTGAAAGATATCCCATTTGAGGAAACCAAGTAAGTATCC	3955
Db	3900	AGTGAAGTAAAAACATTTGAAAGATATCCCATTTGAGGAAACCAAGTAAGTATCC	3959
OY	3960	AGATACAGCCAGACAGACAGTGGGATGATCTTTCATCAGAAAGCTGAAAACCTGGA	4019
Db	3960	AGATACAGCCAGACAGACAGTGGGATGATCTTTCATCAGAAAGCTGAAAACCTGGA	4019
OY	4020	AGACAGGAACCAATATATCTCCATCTTTTGTGGAATATGCCAGTAAGCAGGAGATC	4079
Db	4020	AGACAGGAACCAATATATCTCCATCTTTTGTGGAATATGCCAGTAAGCAGGAGATC	4079
OY	4080	TGTGGCTCCGGAAGGCTCCAAACCAACAGTGGGCTAACAGTCTGGGTATCACTAGATGA	4139
Db	4080	TGTGGCTCCGGAAGGCTCCAAACCAACAGTGGGCTAACAGTCTGGGTATCACTAGATGA	4139
OY	4140	CACAGACACACCCGTACTCCAGGAGCAGGACAGGACTTTTAAAGATGTGATGTCTC	4199
Db	4140	CACAGACACACCCGTACTCCAGGAGCAGGACAGGACTTTTAAAGATGTGATGTCTC	4199
OY	4200	AGTTACGCTGACTCAGGAGCCACATGCG - GTCATCTTCCTGTTTAAATGGAAGTGTCC	4258
Db	4200	AGTTACGCTGACTCAGGAGCCACATGCGTCACTCTGTTTAAATGGAAGTGTCC	4259
OY	4259	TGTCCCGGCTCCGCCCAACTCCCTGGAATATCAACAGAGAGGTGTGATTATTTCAA	4318
Db	4259	TGTCCCGGCTCCGCCCAACTCCCTGGAATATCAACAGAGAGGTGTGATTATTTCAA	4319
OY	4319	GTGTTGTTCTTTCCACCAACCCGGAAGTACCAATTTGATTTTTCATTTTGTGAGAGGGA	4378
Db	4320	GTGTTGTTCTTTCCACCAACCCGGAAGTACCAATTTGATTTTTCATTTTGTGAGAGGGA	4379
OY	4379	CCTCAGATGCGAAGAGGCTGTGCTCCAGAGGATTTCCAGAGAAGATGCGCCATGACCCAG	4438
Db	4380	CCTCAGATGCGAAGAGGCTGTGCTCCAGAGGATTTCCAGAGAAGATGCGCCATGACCCAG	4439
OY	4439	AATGTGTGACTACTCTCTTTTCCATTCAATTAAGTCTATATATGTGCTGCT	4498
Db	4440	AATGTGTGACTACTCTCTTTTCCATTCAATTAAGTCTATATATGTGCTGCT	4499
OY	4499	GTGCTCTACCTACCGATTAAAGCAAAAGACTTTCAAACAGTGAATCTGTGCTTCAGAA	4558
Db	4500	GTGCTCTACCTACCGATTAAAGCAAAAGACTTTCAAACAGTGAATCTGTGCTTCAGAA	4559
OY	4559	AGTGCGAACGGCACTCTGTGAAATCTGATCGAATGGGCAATGCTTTGTGTGAGGAT	4618
Db	4560	AGTGCGAACGGCACTCTGTGAAATCTGATCGAATGGGCAATGCTTTGTGTGAGGAT	4619
OY	4619	GAGTGAGATGTCCACGGGCCAGTCTGTCTACCTTGAAGCTTTGTGAGGATGCGCTA	4678
Db	4620	GAGTGAGATGTCCACGGGCCAGTCTGTCTACCTTGAAGCTTTGTGAGGATGCGCTA	4679
OY	4679	TGAGCCAAGTGTTAAGTGTGGGATGTGGAATGGGAGGAAGGCGCAAGTCCCTGGA	4738
Db	4680	TGAGCCAAGTGTTAAGTGTGGGATGTGGAATGGGAGGAAGGCGCAAGTCCCTGGA	4739
OY	4739	GAGCGGTTGAGCCCTGCAAGATGATATGTCTGTGCTGTGAGAGTGGGCTGTGTGACCTG	4798
Db	4740	GAGCGGTTGAGCCCTGCAAGATGATATGTGTGTGCTGTGAGAGTGGGCTGTGTGACCTG	4799
OY	4799	TCAGGAAACGAAAGGCGGCCGAGGCTTTGTGTAAGGCTTTGTGCTCTTTCACA	4858
Db	4800	TCAGGAAACGAAAGGCGGCCGAGGCTTTGTGTAAGGCTTTGTGCTCTTTCACA	4859

QY	4859	GTGGGGTTACAGGGGAGGATGCCCTGAGGTTTCTTACTCCCTTAAGAAGAGTTCTTCCGGA	491.8
Db	4860	GTGGGGTTACAGGGGAGGATGCCCTGAGGTTTCTTACTCCCTTAAGAAGAGTTCTTCCGGA	491.8
QY	4919	CTCTTAAGTGTCTCTGGCCCTGGCCCAAGAGGAAATGATGCAAGCTTGTCTCTCTCA	497.8
Db	4920	CTCTTAAGTGTCTCTGGCCCTGGCCCAAGAGGAAATGATGCAAGCTTGTCTCTCTCA	497.97
QY	4979	TCTCTCAAGGCTGTGCTCTTAATTTCAGAACCCAAAGAGAGGACAGTGGGCAAGAGCTCT	503.8
Db	4980	TCTCTCAAGGCTGTGCTCTTAATTTCAGAACCCAAAGAGAGGACAGTGGGCAAGAGCTCT	503.9
QY	5039	GACGGGGCCGAAGATTGTGAGAACAGAACAGAACTCAGGGTTTCTGTGGGTGAGAC	509.8
Db	5040	GACGGGGCCGAAGATTGTGAGAACAGAACAGAACTCAGGGTTTCTGTGGGTGAGAC	509.9
QY	5099	CCAGCTGGCGCCCTGTGTGGCAGAGTCTGAGGGTTTCTGTCAAGTGGCGGTAAAGCTCAG	515.8
Db	5100	CCAGTGGCGCCCTGTGTGGCAGAGTCTGAGGGTTTCTGTCAAGTGGCGGTAAAGCTCAG	515.9
QY	5159	GCTGGTGTCTTCTCTCATCTCCACTCTGTCAAGGCCCCCAAGTCTCAGATTTTAGCT	521.8
Db	5160	GCTGGTGTCTTCTCTCATCTCCACTCTGTCAAGGCCCCCAAGTCTCAGATTTTAGCT	521.9
QY	5219	TTGTGGCTTCTGTATGGCAGAAATCTTAAATTTGGTGTGTGCTCTCCAGATATCACT	527.8
Db	5220	TTGTGGCTTCTGTATGGCAGAAATCTTAAATTTGGTGTGTGCTCTCCAGATATCACT	527.9
QY	5279	AGCAGATTTCGAATTAATTTCAGCCGAGAGTTATATAACATCTGATCCTTTAG	533.8
Db	5280	AGCAGATTTCGAATTAATTTCAGCCGAGAGTTATATAACATCTGATCCTTTAG	533.9
QY	5339	AATTTTAACCTATAAACTATGTCTACTGGTTTGTGCTGTGTGCTTATGTT	539.0
Db	5340	AATTTTAACCTATAAACTATGTCTACTGGTTTGTGCTGTGTGCTTATGTT	539.1

RESULT 7
 US-10-639-603-5
 ; Sequence 5, Application US/10639603
 ; Publication No. US20050003365A1
 ; GENERAL INFORMATION:
 APPLICANT: Lemischka, Ihor R.
 TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 RECEPTORS AND THEIR LIGANDS
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ImClone Systems Incorporated
 STREET: 180 Varick Street
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 10014
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/639,603
 FILING DATE: 11-Aug-2003
 CLASSIFICATION: 536
 ;
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/977,451
 FILING DATE: 11-NOV-1995
 APPLICATION NUMBER: US UNASSIGNED
 FILING DATE: 12-NOV-1992
 APPLICATION NUMBER: US 07/906,397
 FILING DATE: 26-JUN-1992
 APPLICATION NUMBER: US PCT/US92/05401
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 APPLICATION NUMBER: TW 81102961
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FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
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APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mac_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-639-603-5
Query Match 99.0%; Score 5336.8; DB 8; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

420 GGAAGGATTTGGTGAAGTAAAGCGCGGTGGTGAAGTATCTTCTGCAAAACACTGAC 479
480 CATTTCCAGAGGTGGTGGAAATGATACCTGAGACCTTCAAGTGTCTGTACCGGAGCTGCA 539
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780 TTACATGATCAGCTATGCGGCGATGCTTCTGTGAGGCAAGATCAATGATGAACCTTA 839
840 TCAGTCTATCATGATACATGATGTTGTGTGTAGAGATATAGAGATTTATGATGTATCTGAG 899
840 TCAGTCTATCATGATACATGATGTTGTGTGTAGAGATATAGAGATTTATGATGTATCTGAG 899
900 CCCCCGATGAATTTGAGCTATCTGCGGAGAAACCTTGTCTTAAATGTGACGCGAG 959
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960 AACAGAGCTCAATGTGGGCTTGAATTCACTGCGACTCTCCACCTTCAAGTCTCATCA 1019
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1080 GAGCAGCTTTGACAAATGAAAGGTGACCAAGAGTACCAAGGGAATACCTGTGTAGC 1139
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1140 GTCAAGTGAAGGATGATCAAGAGAAATGAACATTTGTCCGAGTTCAACAAAGCCTTT 1199
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1200 TATTGCTTTTGGTATGAGGATGAATCTTTTGTGGAAGCCACAGTGGGCAATCAAGTCCG 1259
1260 AATCCCTGGAAGTATCTCAAGTTCCAGAGCTCTGATATCAAAATGAGTACAGAAATGGAAG 1319
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1320 GCCCATTTGATCAACATCAATGATTTGTGGCATGAACCTCAATCATATGAAGTGAAC 1379
1380 TGAAGAGATGAGAAATCAACAGGTATCTCAACCAACCCATTTCAATGAGAAACAA 1439
1380 TGAAGAGATGAGAAATCAACAGGTATCTCAACCAACCCATTTCAATGAGAAACAA 1439
1440 GAGCAGATGATCTCTGTGTTGATGATGTCACCCAGATCGGTGAGAAAGCCTTGAAT 1499
1440 GAGCAGATGATGATCTCTGTGTTGATGATGTCACCCAGATCGGTGAGAAAGCCTTGAAT 1499
1500 CTGCGCTATGATTTCTACAGATATGGGACCAATGACATTTGACATGACAGTCTACGC 1559
1500 CTGCGCTATGATTTCTACAGATATGGGACCAATGACATTTGACATGACAGTCTACGC 1559

Qy 1560 CAACCTCCCTGCAACATCAGTGGTACTGGAGCTGAGAGAGCCCTGCTCTACAG 1619
Db 1560 CAACCTCCCTGCAACATCAGTGGTACTGGAGCTGAGAGAGCCCTGCTCTACAG 1619
Qy 1620 ACCCGCCAAACACACCCGTATGCTTTGTAAGAAATGAGACACCTGGAGAGATTTCCAGG 1679
Db 1620 ACCCGCCAAACACACCCGTATGCTTTGTAAGAAATGAGACACCTGGAGAGATTTCCAGG 1679
Qy 1680 GGGAAACAAAGATCGAAGTCAACCAAAACCAATATCCCTGATTGAAGAAAAACAAC 1739
Db 1680 GGGAAACAAAGATCGAAGTCAACCAAAACCAATATCCCTGATTGAAGAAAAACAAC 1739
Qy 1740 TGTAAATACGCTGCTCATCAAGCTGGCAACGTGTCAACGCTTTGAACAATGTGAAGCAT 1799
Db 1740 TGTAAATACGCTGCTCATCAAGCTGGCAACGTGTCAACGCTTTGAACAATGTGAAGCAT 1799
Qy 1800 CAACAAACCGGACAGAGAGAGAGGGTCACTCTCTCATGTGATCAGGGCTCTGAAT 1859
Db 1800 CAACAAACCGGACAGAGAGAGAGGGTCACTCTCTCATGTGATCAGGGCTCTGAAT 1859
Qy 1860 TACTGTGCAACCTGCTGCCAGCCAACTGAGCAGAGAGTGTCTCTGTTGTGCACTGC 1919
Db 1860 TACTGTGCAACCTGCTGCCAGCCAACTGAGCAGAGAGTGTCTCTGTTGTGCACTGC 1919
Qy 1920 AGACAGAAATACGTTTGAAACCTCAACGTGTGCAAGCTTGGCTCAAGGCAACCTCGT 1979
Db 1920 AGACAGAAATACGTTTGAAACCTCAACGTGTGCAAGCTTGGCTCAAGGCAACCTCGT 1979
Qy 1980 CCACATGGGCGCAATCACTCAACAGCTTTGCAAGAACTTGAATGCTCTTTGGAACTGAA 2039
Db 1980 CCACATGGGCGCAATCACTCAACAGCTTTGCAAGAACTTGAATGCTCTTTGGAACTGAA 2039
Qy 2040 TGGCACAATGTTTCTAAGACGACAAATGACATCTTGAATGAGCATTTGCAATGCTC 2099
Db 2040 TGGCACAATGTTTCTAAGACGACAAATGACATCTTGAATGAGCATTTGCAATGCTC 2099
Qy 2100 TCTGAGAGACCAAGCGACCTATGTTGCTGCTCMAATGAAGAACCAAGAAAAAGCA 2159
Db 2100 TCTGAGAGACCAAGCGACCTATGTTGCTGCTCMAATGAAGAACCAAGAAAAAGCA 2159
Qy 2160 TTGCTGTCAAAACGCTCATCATCTAGAGGGGACGGCAACCGATCAACCGGAAATCT 2219
Db 2160 TTGCTGTCAAAACGCTCATCATCTAGAGGGGACGGCAACCGATCAACCGGAAATCT 2219
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Db 2220 GGAAGATCAGACAA CAACCATTTGGCGAGACCAATGAATGA CTTCGCCAGCATCTGAAA 2279
Qy 2280 TCTTAACCCCAACATTACATGGTTCAAGACAGAGACCTGGTGAAGATTCAAGCAT 2339
Db 2280 TCTTAACCCCAACATTACATGGTTCAAGACAGAGACCTGGTGAAGATTCAAGCAT 2339
Qy 2340 TGTACTGAGATGGGAAACCGGAAACCTGA CTATCCGAGGGTGAAGAGAGAGATGAGG 2399
Db 2340 TGTACTGAGATGGGAAACCGGAAACCTGA CTATCCGAGGGTGAAGAGAGAGATGAGG 2399
Qy 2400 CCTCTACACTGCGACGCTCAATGTCTTGGCTGTGCAAGAGCGAGAGACGCTCTTCAT 2459
Db 2400 CCTCTACACTGCGACGCTCAATGTCTTGGCTGTGCAAGAGCGAGAGACGCTCTTCAT 2459
Qy 2460 AATGAAAGGTGCCAGAGAAAGACCACTTGAAGTCAATTA TCTCTGTGGCACTGCAGT 2519
Db 2460 AATGAAAGGTGCCAGAGAAAGACCACTTGAAGTCAATTA TCTCTGTGGCACTGCAGT 2519
Qy 2520 GATTGCAATGTTCTTCTGGCTCTCTCTGATTTGCTTACAGGACCGTTAAGCGGGCCAA 2579
Db 2520 GATTGCAATGTTCTTCTGGCTCTCTCTGATTTGCTTACAGGACCGTTAAGCGGGCCAA 2579
Qy 2580 TGAAGGGAGACTGAAGACAGGCTACTTGTCTATTGTCTATGATCCAGATGAAATGGCCTT 2639
Db 2580 TGAAGGGAGACTGAAGACAGGCTACTTGTCTATTGTCTATGATCCAGATGAAATGGCCTT 2639

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Db 2940 GGTGATTTGTGAATTTCTGCAAGTTTGGAAACCTATCAACTTAACGGGGCAAGAGAA 2999
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Db 3000 TGAATTTGTTCTCTTAATAGCAAGCAAGGGGACGCTTCCGCGAGGCAAGACTACGTTGG 3059
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APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-11-030-539-5
Query Match 99.0%; Score 5336.8; DB 10; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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1500 CTGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1559

|||||
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Db 4740 GAGCGGTTGAGACCTGACATGATGATTTGTGTGCTGTGTGTGAGGCTGTGTGAGCTG 4799

Qy 4799 TCAGAAAACGCAAAAGCGCGCCGAGGCTTTGTTTGAAGGTTTGGTCTCTTCA 4858
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Qy 4859 GTGGGTTTACAGGGAATTTCCCTGTGCGTTTCTTACTCCAAATGAGATCTTCCGA 4918
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RESULT 9
US-10-741-600-643
; Sequence 643, Application US/10741600
; Publication No. US2005026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 643
; LENGTH: 5832
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-643

Query Match 62.4%; Score 3365.4; DB 8; Length 5832;
Best Local Similarity 78.7%; Pred. No. 0;
Matches 4328; Conservative 12; Mismatches 1003; Indels 158; Gaps 21;

Qy 14 CCGGATACCTGCGGTGACCGCGGATTCGCGGACACCGCTGAGCGCGGCTGGAACCGAGG 73
Db 104 CTGGATATCTCTCTTACCGGACCGGACGCGCTTGAAGCGGCGGCTGCGCGGAG 163
Qy 74 CGCGGTGCGCGCGCTCTCCGCGTCTGCGCTGCGCGGAGC-----ATACCGCTCTG 128
Db 164 CTCCTTACCGCTGTGCGCTCACTGTCTCTGCGTGGGGGTGCGCGAGTTCAACCTCG 223
Qy 129 TGACTTCTTTGCGGCGCAGGAGAGAGAGTGTGTGCTGTGAAATCGGCGCTGTG 188

Db 224 CCCCTCTCTCTAGACAGGCGCTGGGAGAAAGAACCGGCTCCCGAGTTCTGGGCAATTTCC 283
 Qy 189 CCCAGCGGGAGGTGAGATGAGAGCAAGGGCGTGTAGCTGTGTCTGTGTGTCTG 248
 Db 284 GCCCGGCTGAGGTGAGAGTGAAGAGCAAGGTGTGTGTGTGTGTGTGTGTGTGTG 343
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 Db 344 CGTGGAGACCGGCGGCTG 403
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4467 GCATTTGATTTGATTTT-----TTGAGAGAGAGAGAGAGAGATGG 4462
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4527 TAGGATATCTCTGAGAGAGAGAGAGAGAGAGAGATGG 4585
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4505 TCACCTACAGTTAAAGCAAAAGCTTTCAAAACGCGAGCTGTCTCTCCAAAGATGGC 4564
4646 TCACCTACAGTTAAAGCAAAAGCTTTCAAAAG--ATGGCCCATCTTCAAAAGATGAC 4703
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RESULT 10

US-10-133-013-269

; Sequence 269, Application US/10133013

; Publication No. US2003016903A1

; GENERAL INFORMATION:

APPLICANT: Astromoff, Anna
APPLICANT: Bandman, Olga
APPLICANT: Cocks, Benjamin G
TITLE OF INVENTION: GENES ASSOCIATED WITH VASCULAR DISEASE
FILE REFERENCE: PA-0049 US
CURRENT APPLICATION NUMBER: US/10/133,013
CURRENT FILING DATE: 2002-04-25
PRIOR APPLICATION NUMBER: 60/287,067
PRIOR FILING DATE: 2001-04-27
NUMBER OF SEQ. ID NOS: 271
SOFTWARE: PERL Program
SEQ ID NO 269
LENGTH: 5841
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID No. US2003016903A1 247817.4
US-10-133-013-269

Query Match 62.3%; Score 3356; DB 6; Length 5841;

Best Local Similarity 78.8%; Pred. No. 0;

Matches 4338; Conservative 0; Mismatches 1005; Indels 159; Gaps 22;

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OY	3056	TTGGGGAGCTCTCCGTGGAATCTGAAAAGACGCTTGGACAGCATCAACGACGCCAGACT	3115
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OY	3116	CTGCAGGCTCAGGCTTTGTGTGAGGAATGCGTCAGTATGTTGAGGAAGAAGAGCTT	3175
Db	3218	CAGCCAGCTCTGGAATTTGTGAGAGGAAGTCCCTCAGTATGTTGAGGAAGAAGAGAGTCT	3277
OY	3176	CTGAAGAACTGTACAAGACCTTCTGACCTTGAGACATCTCATCTGTTACAGCTTCCAG	3235
Db	3278	CTGAAGATCTGTATAAGACCTTCTGACCTTGAGACATCTCATCTGTTACAGCTTCCAG	3337
OY	3226	TGGCTTAAGGCAATGGAATTTCTTGGAATCAAGAAATGTAATCCACAGGACCTGGCAGAC	3295
Db	3338	TGGCTTAAGGCAATGGAATTTCTTGGAATCAAGAAATGTAATCCACAGGACCTGGCAGAC	3397
OY	3296	GAAACATTTCTCCTATCGAGAAAGAAATGTGTTAAGATTTGTGACTTGGCTTGGCCGGG	3355
Db	3398	GAAATATCTCTTATTCGAGAAAGAAACGTGTAAATTTGTGACTTGGCTTGGCCGGG	3457
OY	3356	ACATTTATTAAGACCCGGATTATGTCAAGAAAAGAGATGCCGACCTCCCTTTGAATGGA	3415
Db	3458	ATATTTATTAAGATCAAGATTATGTCAAGAAAAGAGATGCTGCCCTCTTTGAATGGA	3517
OY	3416	TGGCCCGGGAACCAATTTTGAACAGATATACAAATTCAGAGGATGTGTGCTTTCG	3475
Db	3518	TGGCCCGGGAACCAATTTTGAACAGATATACAAATTCAGAGGATGTGTGCTTTCG	3577
OY	3476	GTGTGTGCTCTGGGAAATATTTTCTTAGGTGCTCCCACTACCTGGGTCAGAAATG	3535
Db	3578	GTGTGTGCTGTGGAAATATTTTCTTAGGTGCTCCCAATCTGGGTTAAAGATG	3637
OY	3536	ATGAAGAAATTTTGTAGAGATTGAAGAAAGAACTAGAAATGCGGGCTCTGACTACCTA	3595
Db	3638	ATGAAGAAATTTTGTAGAGATTGAAGAAAGAACTAGAAATGCGGGCTCTGACTATTA	3697
OY	3596	CCCCGAAATGTACAGACCAATGCTGACCTCTGGCATGAGAGACCCCAACAGAGACCT	3655
Db	3698	CACCGAAATGTACAGACCAATGCTGACCTCTGGCACGGGAGCCCACTAGAGACCA	3757
OY	3656	CGTTTTCAGAGTTGTGTGAGCAATTTGGGAAACCTCTGTGCAAGCAATGCGCAGCAGATG	3715
Db	3758	CGTTTTCAGAGTTGTGTGAGCAATTTGGGAAATCTTTGCAAGCTAATGCTCAGCAGATG	3817
OY	3716	GCAAAAGACTAATATGTTCTTCCAAATGTGCAGACACAGAGATGGAAGAAGATTTGTGAC	3775
Db	3818	GCAAAAGACTAATATGTTCTTCCAAATGTGCAGACTTTGAGATGGAAGAAGATTTGTGAC	3877
OY	3776	TCTCCCTGCTTACCTCACTGTGTTCTCTGTATGAGAGGAAGAGAGTGTGCACCCCAAT	3835
Db	3878	TCTCTGTGCTTACCTCACTGTGTTCTCTGTATGAGAGGAAGGAAGTATGTGACCCCAAT	3937
OY	3836	TTCATTTATGACACACAGCAGAGAAATCACTATTATCTCAGAACGTAATGCGAAGAGCC	3895
Db	3938	TTCATTTATGACACACAGCAGAGAAATCACTAGTATCTGCAGAACGTAATGCGAAGAGCC	3997
OY	3896	GGCAGTAGTGTAAAAAATTTTGAAGATATCCCAATGAGAGAACAGAAATATAAGTGA	3955
Db	3998	GGCCTGTGATGTAAABAATTTTGAAGATATCCCTTAGAAGAACAGAAATATAAGTGA	4057
OY	3956	TCCCAATGACAGCCAGACAGACAGTGGGATGTGCTTGATCAAGAAAGCTGAAAATCTC	4015
Db	4058	TCCCAATGACACAGCCAGACAGTGGTATGTGTTCTTGACAGAAAGCTGAAAATCTT	4117

OY	4016	TTGAAAGACAGAACAAATTATCTCATCTTTTGGTGGAAAGAATGCCAGATPAAAGCAGGG	4075
Db	4118	TGGAAAGACAGAACCAAAATATCTCATCTTTTGGTGGAAATGGTCCAGCAAAAGCAGGG	4177
OY	4076	AGTCTGTGGCCTCGGAAGGCTTCAACCGACGACCAATGGGTATCAGTCTGTGGATCACTCAG	4135
Db	4178	AGTCTGTGGCATCTGMAAGGCTCAAAACCGACGACCAATGGGTATCAGTCTGTGGATCACTCAG	4237
OY	4136	ATGACACAGACACCAACCGGTACTTCCAGCGACGAGGACGAGACTTTTAAAGATGGTGAATG	4195
Db	4238	ATGACACAGACACCAACCGGTACTTCCAGGTGAGGAGGAGAACTTTTAAAGCTGATTAAGGA	4297
OY	4136	CTGCAG-----TTCAAGCTGATCTCAGGGACCACTGC	4228
Db	4238	TTGGAGTGCMAACCGGTAGCACAGCCCAAGATTCTTCACGCTCAGTCTGGGGACCACTGA	4357
OY	4229	GCTACCTCTCTGTTTAAATGGAGTGGGCTGTCCCGGCTCCGGCCCCCACTCTCGGAAA	4288
Db	4358	GCTCTCTCTCTGTTTAAAGGAG-----CATCCACACCCCACTCTCCGGACA	4406
OY	4289	TCAAGAGAGAGTGTCTTGAATTTTCAAGTGTGTCTTTCCACACCCCGAAGTAGC	4348
Db	4407	TCAATGAGAGAGTGTGTCTGATTTTCAAGTGTGTCTTTCCACACGAGAAAGTAGC	4466
OY	4349	CACATTGATTTTCATT-----TTGAGAGAGGACCTCAGACTGCAGAGAGCTTGCTCT	4403
Db	4467	CGCATTTGATTTTCATTTCGACCAACAGAAAAGGACCTCGGACTGCAGGGAGCCAGTCTT	4526
OY	4404	CAGGCAATTCACAGAGAAATGCCATGACCCAGAAAT-----GTG	4444
Db	4527	CTAAGCAATCTGTGAAGAGGCTTGTGACCCAGAAATGTGTCTGTCTTCTTCCAGTG	4585
OY	4445	TTGACTACTCTCTTTTCAATTCATTAAAGTCTATAATATGTGCCCCCTGTCTG-TGT	4503
Db	4586	TTGACTGTATCTCTTTTTCATTTCATTAAAGCAATTATCAGTCCCCCTGTCTGCGGGT	4645
OY	4504	CTCACTACAGATTAAGCAAAAGACTTTCAAAACGTGACCTGTCTCTCCAAAGCTGG	4563
Db	4646	CTCACTACAGGTTTGAACAAAGACGTTCAAGAA--ATGGCCCATCTCTCAAAAGATAG	4703
OY	4544	CA-----ACGCACCTCTGTGAACTGTGATCGAATGGGCAATGCTTGTGTCT	4611
Db	4704	CAGTACTGGGAAGCTGACACTTGTGTAAACTTGAAGATTAACAGGCAATGTAAAGTGT	4763
OY	4612	TGAGGATGGGTGAGATGTCACG-----GACCGAATCTGTCTAATCTTGAAGCTTTGTGA	4667
Db	4764	TCGAGTGTGTAAATGAGGAAGACTTTGCAAGGCTGAGTCTATCAAGAGGCTTTGTTTA	4823
OY	4668	GGATGCGGCT-ATGAGCCAAAGTGTAAATGTGTGGATGTGACTGGAGAGAAAGAAAGCGC	4726
Db	4824	GGAAGTGGGTCCAAAGCCAAAGCTTTAAATGTGTGAATTCGATGTATGAAAGAAAGACTA	4883
OY	4727	AAG-----TGCTTCGAGAGACGGTTGAGCTTCGAGATGCAATTGTGCTGTCTGTGTGA	4781
Db	4884	ACGTTACTCTGCTTTGAGAGTACTGTGAGCTGCAAAATGCAATGTGTGTTGCTGTGTGGA	4943
OY	4782	GGTGGGCTGTGGCTGTGACAGAAACGCAAGCGCGCGGAGGGGTTTGGTTTGGAAAG	4841
Db	4944	GGTGGGCAATGGGGTCTGTTCTGAATATPAAAGGTTTAAGACGGGGTTTCTGTTTATGAA	5003
OY	4842	TTTGGGTGCTTTCACAGTCCGGGTTTACAGGCGAATTCCTGTGGCTTTCTACTCTCTAA	4901
Db	5004	GGTTGGCGTGTCTTCGAGTTGGGCTTAAAGTAGATTTGTTGTGTCTTTTTCGACTCTTA	5063
OY	4902	TGAAGTTCCTTCCGGAATCTTACGTGTCTCTTGGCTCGGCCCCAGAGAAATGATGC	4961
Db	5064	TGAAGTTCCTTCCAGACCGTTACGTGTCTCTTGGCCAAAGCCCCAGAGAAATGATGC	5123
OY	4962	AGCTTGCTCTCTCTCAATCTCTAGGGCTGGCTTAATTAGAACACCAAAAGAGAGAA	5021
Db	5124	AGCT--CTGGCTCTTGTCTTCCAGGCTGATCTTTATTCAGAAATACCAAAAGAAAGGA	5181
OY	5022	CGT--CGGCAAGGCTCTCTGACGGGCGCAAGATTGTGAAACAGAACAGAACTCAGG	5079

Db 5182 CATTACGCTCAAGGCTCCCTGCGCCGTGTTGAAGAGTTGACGTGACAAACGAGCTTCTGG 5241
Qy 5080 GTTTCGTGGGTGGAGCCCAAGTGC-----GCCGTGGGTGGAGGTC 5123
Db 5242 TTTCTCTGGAATGATATCCCTCATATCTGTCCTGATGTGATGTCTGAAGCTGAATGC 5301
Qy 5124 TGAAGGTTCTGTCA-----GTGGCGTTAAAGCTCAGGCTGTGTTCTTCTCT- 5175
Db 5302 GGGAGGTTCAATGTGAAGCTGTGTGTGTTGTTCAAGATTTCAGAAAGATTTTACCTTTT 5361
Qy 5176 -----ATCTCACTCTGTGAGGCCCCCAAGTCTCAGTATTTTACCTTTGT 5222
Db 5362 GTTCTTCCCTGTCGCCCAACCCACTCTACCCGCCAACCCATCAGTATTTTATGTTATTT 5421
Qy 5223 GGCCTTCGATGGGAGAAAATCTAATTTGGTGTGTTGCTCCAGATTAATCACTAGCC 5282
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Qy 5283 AGATTTCGAAATTAATCTTTTAAAGCCGAGGTATGATATCATCTACTGTATCCTTTGAATT 5342
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Qy 5343 TTAACCTTAAATTAATCTATGTCTAATGTTTCTGCTGTGCT 5384
Db 5536 TTAACATATAGAGCTATTTCTACTGATTTTGGCCCTGTCT 5577

RESULT 11

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; Sequence 18, Application US/10116802
; Publication No. US20030065157A1
; GENERAL INFORMATION:
; APPLICANT: Amy Lasek
; TITLE OF INVENTION: GENES EXPRESSED IN LUNG CANCER
; FILE REFERENCE: PA-0045 US
; CURRENT APPLICATION NUMBER: US/10/116, 802
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 60/281,593
; PRIOR FILING DATE: 2001-04-04
; NUMBER OF SEQ ID NOS: 519
; SOFTWARE: PERL Program
; SEQ ID NO 18
; LENGTH: 5832
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc. feature
; OTHER INFORMATION: Incyte ID No: 247817.4
US-10-116-802-18

Query Match 62.2% Score 3354.4; DB 5; Length 5832;
Best Local Similarity 78.8% Pred. No. 0; Mismatches 1006; Indels 159; Gaps 22;
Matches 4337; Conservative 0;

Qy 14 CCGATTAACCTGTGTCGACCCGATTCGCGGACACCGCTGACGCGCGCTGAGCCAGG 73
Db 104 CTGGATATCTCTCTCAACCGGACCCGACGAGCGCCCTGCAAGCGCGGCGCGGG 163
Qy 74 CGCGGATGCGCGGCTTCCCGGTCTTGGCTGCGCGGGGCGC-----ATACCGCTGTG 128
Db 164 CTCCCTAACCTGTGCGCTCAACGTCTCTGCGCTGCGGGGCGCGGAGTTTCACTCCG 223
Qy 129 TGACTTCTTTGCGGGCGAGGACGGAAGAGTGTGCTGAGAAATCGGGCTGTG 188
Db 224 GCCTCTCTTCTTACAGGCGCTGGGAGAAAGAACCGGCTCCGAGTTCTGGGCAATTC 283
Qy 189 CCAAGCGCGAGGTGCAAGATGAGAGCAAGCGCTGACTGTGCTGTGGTTCTG 248
Db 284 GCCCGGCTCGAGGTGCAAGATGAGAGCAAGGTGTGTGCGCGCTGTGGCTGTG 343
Qy 249 CGTGAAGCCGAGCGCGCTCTGTGGGTTTGACTGAGCAATTTTCTCACTCCCGCACT 308

Db 344 CGTGAAGACCCGGGCGCGCTCTGTGGGTTTGCCTAGTGTCTCTGATCTGCCAGCT 403
Qy 309 CAGCACAAGAAAAGACATTAATGACAAATTTGGCAATATCAACCCCTGAGATTAATGACAG 368
Db 404 CAGCATTAACAAAAGACATTAATGACAAATTTAGGCTAATATCAACTTTCAATTAATCTGAG 463
Qy 369 GGAAGACGGGACCTGAGACTGTGGCCCAATGCTCAAGCTGATTTCTGAGAAAGGT 428
Db 464 GGAAGAGGACCTTGGACTGTGGCCCAATATCAAGTGTGAGTGAAGAAAGGT 523
Qy 429 ATTGTGATGATATGCGCGGTGTGACAGATTTCTTGCAGAAACATCAACATTTCCAG 488
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Db 578 AGTATGGAATATACCTGAGGCTTCAAGTGTCTTCAACCGGAACTGACTGGCTTC 637
Qy 549 CACTGTTTATGTCTATGTGAGATTACAGATCAACATTCATTCGCTGTGACGTACCA 608
Db 638 GGTCAATTAATGTCTATGTTCAGATTAAGATTCATCAATTAATGCTTCTGTGATGACCA 697
Qy 609 GCATGCGATGTGTACATCAACCGAGAACAGAAACAAATGCTGTGATCCCTGCGAGG 668
Db 698 ACATGAGTGTGTACATTACTGAGAACAAACAAATGCTGTGATTCATGTCTCGG 757
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Qy 1329 GTCAATCAACAAATGTTGTGCGATGAATCAATCAATGGAATGATGAAGGA 1388
Db 1418 GTCAATCAACAAATTAAGCGGGGCAATGTATGACGAATTAAGAAATGATGAAGGA 1477

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1778 GGGAGAAATTAATTTGAAGTTAATTAATCAATTTGCTTAATTGAAGGAAAAACAA 1837
1737 AACTGAATGACGTGTGTCATCCAGCTGCAACGATGAGGCTGTACAAATGTGAAGC 1796
1838 AACTGAATGACCTTGTGTATTCACAGCGCAAAATGTGTACGCTTTGTACAAATGTGAAGC 1897
1797 CATCAACAAAGCGGAGCAGAGAGAGAGGTCTCTCTTCAATGTGATCAGGGGTCTTGA 1856
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1958 AATTACTGTGCAACTGTCTGCCAGGCACTGACAGAGAGAGTGTCTCTGTGTGCAAC 2017
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2018 TGCAGACAGATCTACGTTTGAGAACCTCAGTGTGTAAGGCTTGGCTCAGAGCAACATC 2077
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2318 CTTGAGAAATCAAGCAACCAATTTGGAGAACCATTTGAAGTGAATTGCTTGGCCAGATCT 2377
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3536 ATGAAGATTTTGTAGAGATTGAAGAAAGAACTGAATGCGGCTCTGACTACACTA 3595

Db 3638 ATGAAGATTTTGTAGGCGATTGAAAGAACTAGATGAGGCGCCCTGTTTACTTA 3697
Oy 3596 CCCCAAGATGTACAGACCATGTGCTGAGCTGGCATGAGGACCCCAACGAGACCT 3655
Db 3658 CACCGAAATGTACAGACCATGTGCTGAGCTGGCAAGGAGCCGATGAGACCCA 3757
Oy 3656 CGTTTCAAGTGTGTGAGCAATTTGGAAACCTCTGCAAGCAATGCGACGAGATG 3715
Db 3758 CGTTTCAAGTGTGTGAGCAATTTGGAAACCTCTGCAAGCAATGCTGACGAGATG 3817
Oy 3716 GCAAGACTATATTTCTTCCATGTCAGAGACCTAGCATGGAAGAAGATTTTGAC 3775
Db 3818 GCAAGACTATATTTCTTCCATGTCAGAGACTTGAAGATGGAAGATTTTGAC 3877
Oy 3776 TCTCCCTGCTACCTACCTGTTTCTGTATGGAAGAAAGAAAGTGGCCCAAT 3835
Db 3878 TCTCTGCTACCTACCTGTTTCTGTATGGAAGAAAGAAAGTGTGACCCCAAT 3937
Oy 3836 TCCATTATGACAAACAGCAGGAATCAGTCATTATCTCAGAACATGAGGAAAGACC 3895
Db 3938 TCCATTATGACAAACAGCAGGAATCAGTCATTATCTCAGAACATGAGGAAAGACC 3997
Oy 3896 GGGCAGTATGTATTAACATTTTGAAGATTCCTTGTGAAGAACAGAAAGTGA 3955
Db 3998 GGGCAGTATGTATTAACATTTTGAAGATTCCTTGTGAAGAACAGAAAGTGA 4057
Oy 3956 TCCGATGACAGCAGACAGAGAGTGGATGTTCTTGCATCAGAAAGCTGAAATCTC 4015
Db 4058 TCCGATGACAGCAGACAGAGAGTGGATGTTCTTGCATCAGAAAGCTGAAATCTC 4117
Oy 4016 TGGAAACAGAAACAAATTTATCTCCATCTTTGTGTGAATATGCCAATAAAGCAGG 4075
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Db 4238 ATGACACAGACACACCGTGTACTCAGATGAGGAAGCAAACTTTTAAAGCTGATAGGA 4257
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Db 4298 TTGGATGCAAAACCGGTACAGACCCAGATTCTCAGCTGAGCTCGGAGACCACTGA 4357
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Oy 4445 TTGACTTACTCTCTTTTCCATTCATTTTAAAGTCTTATATATGTGCTGCTG- TGGT 4503
Db 4586 TTGACTTACTCTCTTTTTCATTTTAAAGATTTTATCAATGCCCTGCTGCGGGT 4645
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Oy 4564 CA-----ACGCACTCTGTGAAGTGAATGGGCAATGCTTGTGTGT 4611

Db 4704 CAGTACTGCGGAGCTGACACTTCTGTATAAATAAGAAATTAACAGCAATGTAAGTGT 4763
Oy 4612 TGAGATATGGGTGAGATGTCCAG-----GGCGAGTCTGTCTTACTTGGAGGCTTTGTGA 4667
Db 4764 TCGAGTGTGTAATATGGAAGATTTTGCAGAGGCTGATCTATCCAAAGGCTTTGTTTA 4823
Oy 4668 GGATGCGGCT- ATGAGCCAAATGTATTAAGTGTGGATGTGACTGGAGGAAGAAAGCGGC 4726
Db 4824 GGAAGTGGTCCCAAGCCACTTAAAGTGTGAATTCGATGATGATAAGAAAGAAAGACTA 4883
Oy 4727 AAG-----TCGCTGAGAGCGGTGAGAGCTGTGAGATGCAATGCTGTGCTGTGTGA 4781
Db 4884 ACGTTACTTGTCTTTGAGAGTACTGAGAGCTGCAAAATGCAATGTGTGTCTGTGTGA 4943
Oy 4782 GGTGGGCTTGTGCGCTGTGAGAAACCAAGCGCGCGAGGAGGTTGTGTTTGAAG 4841
Db 4944 GTGTGGCATGGGCTGTGTCTGAAATGTAAGGTTTCAAGCGGCTTTCTGTGTTTGA 5003
Oy 4842 TTTGCGTCTCTTCAAGTGGGTTTCAAGCGGATTCCTGTGCGCTTCTACTCTAA 4901
Db 5004 GGTTCGCTGTCTTCAAGTGGGTTTCAAGCGGATTCCTGTGCGCTTCTACTCTAA 5063
Oy 4902 TGAAGTTCCTTCCGGACTCTTACGTGTCTGCGCTGCGCGCGAGAGGAATGATGC 4961
Db 5064 TGAAGTTCCTTCCGGAACCTTACGTGTCTGCGCGCGAGCGCGAGAGGAATGATGC 5123
Oy 4962 AGCTTGTCTCTTCTCATCTCTCAGGCTGTGCTTAAATTCAGAACACCAAAAGAGAGAA 5021
Db 5124 AGCT--CTGGCTCTTGTCTTCCAGGCTGATCTTTTTCAGATTAACCAAAAGAAAGGA 5181
Oy 5022 CGT--CGGCAAGGCTCTCTGACGCGGCGCAAGAAATTTGAGAACAGAACAGAACTCAG 5079
Db 5182 CATTCACCTCAAGGCTCTGCGCGCTGTGGAAGATTCGACTGCAACCAAGCTTCTGG 5241
Oy 5080 GTTTCGTGCTGGTGAAGACCAAGTGC-----GCCCTGTGCGAGGTC 5123
Db 5242 TTTTCTTGAGTAATAACCTCTCATATCTGTCTGATGTATGTCTGAGACTGATGC 5301
Oy 5124 TGAAGTTCCTTCTGTCAA-----GTGGCGTAAAGCTCAGGCTGTGTTCTTCT- 5175
Db 5302 GGAAGTTCATATGTAAGT 5361
Oy 5176 -----ATCTCAGCTCTGTGAGGCGCCCAAGTCTCAGATTTTGTGTGTGTGTGTGT 5222
Db 5362 GTTCTTCCCCCTGTGCGCAACCTCACTCTCAACCCGCAACCATGATTTTGTGTGTGT 5421
Oy 5223 GGTTCCTGATGGCAAAATCTTATGTGTTGTTGTGCTGCAATATCACTGAGCC 5282
Db 5422 GG--CTCTACTCAGTAACTGATTTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5478
Oy 5283 AGATTTGAAATTAATTTTATGCGAGTTATGATTAACATCTACTGTATCTTTAGATT 5342
Db 5479 AGACTTAATAATTTTATAGCCA--AATTATACTATATGATTTATTTAGACTT 5535
Oy 5343 TTAACCTATAAATAATGCTACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5384
Db 5536 TTAACATATAGCTATTTCTACTGATTTTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 5577

RESULT 12
US-09-967-655-3
; Sequence 3, Application US/09967655
; Publication No. US20030092649A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPT
; FILE REFERENCE: RTS-0227
; CURRENT APPLICATION NUMBER: US/09/967,655
; NUMBER OF SEQ ID NOS: 95
; SEQ ID NO 3

/ LENGTH: 5830
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (304) ..(4374)
US-09-967-655-3

Query Match 61.6%; Score 3317.8; DB 3; Length 5830;
Best Local Similarity 78.4%; Pred. No. 0;
Matches 4314; Conservative 0; Mismatches 1027; Indels 160; Gaps 22;

14 CCGGATTAACCTTGGCTGACCCGATTCGCGGAGACCGCTGCAAGCCG-CGGCTGGAGCCAG 72
Db CTGGATATCTCTCTCTTAACCGGACCGCGAGACGCCCTGACGCGCGGTGCGGCGCGG 163
73 GGGCCGGTCCCGCGCTCTCCCGGCTCTTGCGCTGCGGGGGCA-----TACCGCTCT 127
Db GCTCCCTAGCCCTGTGCGCTCAACGTGCTGCGCTGCGGGGTGCCCGAGTTCACCTCC 223
128 GTGACTTCTTTGCGGGCCAGGGACGGAGAGTGTGCGCTGAGAACTGGGCTCTGT 187
Db GCGCTCTCTTCTTGAACAGCGCTGGGAGAAAGAACCGGCTCCGAGTTCTGGGCAATT 283
188 GCCCAGCGCGAGGTGCAAGATGAGAGCAGAGCGCTGCTAGCTGTGCTGTGGTTCT 247
Db CGCCCGGCTCGAGGTGCAAGATGAGAGCAGAGGTGCTGTGGCCGTGCGCTGTGGCTCT 343
248 GGGTGAAGACCCGAGCGGCTCTGTGGGTTTGACTGGCGATTTTCTCCATCCCCCAAC 307
Db GGTGAAGACCGGCGCGGCTCTGTGGGTTTGTCTTGAATCTGACCGACG 403
308 TCAGCACACAGAAAGACACTGACAAATTTGGCAAAATCAACCTTGCATTAATCTTGA 367
Db TCAGCATACAAAAGACATTAATTAAGGCTTAATCAACTCTTCAATTAATCTTGA 463
368 GGGGACAGCGGACCTGAGCTGCTTGGCCCAATGCTCAGCGGTGATTCGAGAAAGG 427
Db GGGGACAGAGGACCTTGGACTGGCTTTGGCCCAATTAAGATGCGAGTGAAGAAAGG 523
428 TATTGTGACTGAATGCGGCGGTGTGACAGTATCTTTCGCAAAACACTACCAATTCCA 487
Db TGAAGGTGACTGAGTGAAGCGAGT-----GCCCTTCTGTGAAGCACTCAAAATTCGA 577
488 GGGTGTGGAATGATTACTGGAGCTCAAGTGCCTGACCGGAGCGTGCACATAGCT 547
Db AAGTATGGAATGATTACTGGAGCTCAAGTGCCTTCAACCGGAGAACTGCTGGCT 637
548 CCACCTGTTATGCTATGTTGAGATTAACAGATCAACATTCGCTCTGTCACTGAC 607
Db CGGTCAATTTATGCTATGTTGAGATTAACAGATTCACATTTATGCTCTGTGATGAC 697
608 AGCATGCACTGCTGATCACTACCGAAGACAGAAACAAACCTGTGTGATCCCTGCGAG 667
Db AACATGAGAGTCTGTGATCACTGAGAAACAAACAACTGTGTGATTCATGTCG 757
668 GGTGATTTCAAACTCAATGTGCTCTTTGGCTAGGATTCGAAAGAAAGATTTGTC 727
Db GGTCAATTTCAAACTCAACGTGCTCTTTGGCAAGATTCGAAAGAAAGATTTGTC 817
728 CCGATGAAACAGAAATTTCTGAGGACAGCGAGATAGGCTTACTCTCCAGTTACATGA 787
Db CTGATGTAACAGAAATTTCTGAGGACAGAGAGAGGCTTACTTATTCGAGCTACATGA 877
788 TCAGTATGCGGACATGCTCTTCTGTGAGGCAAGATCAATGATGAAACCTATCAGTCTA 847
Db TCAGTATGCGGACATGCTCTTCTGTGAGGCAAGAAATTAATGATGAAAGTTACAGTCTA 937
848 TCATATACATAGTGTGTTGATGATATAGGATTTATGATGATGATTCGAGCCGCCG 907
Db TTAATATACATAGTGTGTTGATGATATAGGATTTATGATGATGATTCGAGTCCGCTTC 997
908 ATGAATATTGAGCTATCTGCGGAGAAACCTTGTCTTAATTTGTAACGCGAAGACAGAGC 967

Db 998 ATGAATTTGAATCTGTGTGAGAAACCTTGTCTTAATTTGTAACGAGAAACGAGAC 1057
968 TCATATGCGGCTTGAATTTCACTGCGACTCTTCACCTTCAAGTCTCATATAGAGA 1027
Db 1058 TAAATGTGGGATGATCACTTCACTGGGATACCCCTTCTTGAAGCATCAGATTAAGAAAC 1117
1028 TTGTAACCGGATGAGAAACCTTCTCTGGGACGTGTGCGAAGATGTTTTGAGACCT 1087
Db 1118 TTGTAACCGGACCTTAAGAACCCAGTCTGGGAGTGAATGAAGAAATTTTGAACACT 1177
1088 TCACATAGAAAGTGTGACCAAGAGTGAACCAAGGGGAAATACACTGTAGGCTCCAGT 1147
Db 1178 TAACTATGATGTGTGAATCCGGAGTGAACAGAAATGTAACCTGTGACGATCCAGT 1237
1148 GACGATGATCAAGAAATAGAACATTTGTCCGAGTTCAACAAAGCTTTTATTGCTT 1207
Db GGTGATGACCAAGAAACACACATTTGTGAGGATCCATGAAACCTTTTGTGCTT 1297
1208 TCGGTATGAGGATGAATCTTTGTGTGAAGCCACAGTGGGAGTCAAGTCGAAATCCCTG 1267
Db 1238 TTGGAAGTGGCATGGAATCTGTGTGAAGCCACGATGGGAGCGGTCAAGATCCCTG 1357
1268 TGAATATCTCAGTTAACCCAGCTCTCTGATATCAATGATACAGAAATGGAAGCCCATTTG 1327
Db CGAATATCCTTGTGTATACCAACCCCAAGAAATGAATGAATATACCCCTTG 1417
1358 AGTCCACTACACAAATGATTTGGCGATGAATCTCAATCATGGAAGTGAAGAG 1387
Db 1418 AGTCCAAATCACAAATTAAGCGGGGCAATGTACTGACATTAATGGAAGTGAAGAG 1477
1388 ATGCAAGAACTACACGGTATCTACCAACCCCATTTGAATGGAAGAAACAGACCCCA 1447
Db 1478 ACACAGAAATTAACCTGTCACTTACCAATCCATTTCAAGGAGAAAGCAGAGCATG 1537
1448 TGTCTCTCTGTTGTGAATGTCCACCCAGATCGTGAAGAAACCTTGTCTGCGCTA 1507
Db TGTCTCTCTGTTGTGAATGTCCACCCAGATTTGTGAAGAAATCTGTAACTCTGCTG 1597
1508 TGGATTCCTACAGATTAAGGACATGACAGATTAATGACATGCACTGACAGTCAAGCCCTG 1567
Db TGGATTCCTACAGATTAAGGACATGACAGTCAAGGCTGACATGACGCTGATGCAATTCCTG 1657
1568 CCCTGACACATTCAGTGTATCTGGCAGCTAGAAAGACCGTCTTACAGACCCGCGC 1627
Db 1658 CCGGACATCACTCAGTGTATGCGAGTGTGAAGAAAGTGCACCAAGCCAGCG 1717
1628 AA-----ACAAGCCGTATGCTGTGAAGATGAGACACGTGAGATTTCC 1675
1718 AAGCTGTCACTGATGACAAACCATATCCTTGTGAAGATGGAAGTGTGAGAGACTTCC 1777
1676 AGGGGGAACAAGATGCAAGTCAACAAACCAATATCCCTGATTTGAAGAAACAA 1735
Db 1778 AGGGGGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1837
1736 AAACGTAAAGTACGTGTGATTCAGAGCTGCAACGTGACCGTGTGAATTAAG 1795
Db 1838 AAACGTAAAGTACCTTGTATTCAGAGCGCAAAATGTACGCTTGTGAATTAAG 1897
1796 CCATCAACAAGCGGAGCAGAGAGAGAGGTCAATCTCTTCATATGATACAGGGTCTCTG 1855
Db CGGTCAACAAGGTGGGAGAGAGAGAGAGGTGATCTCTTCAACGTGACAGAGGCTCTG 1957
1856 AAATTAATCTGTCAACCTGCTGCCAGCACTGACAGAGAGAGTGTCTCTGTGTGCA 1915
Db 1958 AAATTAATCTGTCAACCTGACATGACGCCACATGACAGAGAGAGCGTGTCTTGTGTGCA 2017
1916 CTGACAGACAGAAATACGTTTGAAGACCTCAGTGTGAACACTTGGCTCAGACGCAACAT 1975
Db 2018 CTGACAGACAGATCTACGTTTGAAGACCTCAGATGTGAACACTTGGCTCAGACGCTCTGCG 2077
908 CCGTCCACATGGCGAATCACTCAACCAAGTTTGAAGAACTTGGATGCTCTTTGGAAC 2035

Db	2078	CAATCCATGTTGGAGAGTTGGCCCAACCTGTTTGCAAGAACTTGGAATCTCTTTGGAAAT	2137
Oy	2036	TGAATGGCACCATGTTTCTTCTAACAAGACAAATGACATCTGATTTGGCAATTGCAGAAATG	2095
Db	2138	TGAATGACCACCATGTTCTCTAATAGCACAAAATGACATTTTGATCATGGAGCTTAAGAAATG	2197
Oy	2096	CCTCTCTGCAGAGACCAAGGCGACTATGTTTCTCTGCTCAAGATTAAGAAACCAAGAAA	2155
Db	2198	CATCTTGGCAGAGACCAAGGAGACTATGTTCTGCTTTCGCTCAAGACAGGAAAGCAAGAAA	2257
Oy	2156	GACATTTGCTGGTCAAAAGGCTCATCTCTAGAGCGATGGACCCCTGATCAACCGGAA	2215
Db	2258	GACATTTGGTGGTCAAGGAGCTCAACATCTCTAGAGCGTGTGGCACCACTACAGGAA	2317
Oy	2216	ATCTGGAGAAATCAAGCAACCAATTTGGCGAGACCATTTGAATGACCTTGGCCAGCATCTG	2275
Db	2318	ACCTGGAGAAATCAAGCAAGATATTTGGGAAAGACATGAAATGTCATGACCGGATCTG	2377
Oy	2276	GAAATCTCAACCCCAACATTAATGTTTCAAAAGACACGAAACCTCTGTAGAATTCAG	2335
Db	2378	GGAATCCCCCTCCACAGATCAATGTTGTTAAAGAAATGAACACCTTGTACAAAGCTCAG	2437
Oy	2236	GCATTTGTACTGAGAGATGGGAAACCGGAACTGACATACCGGAGGTGAGAAAGAGATG	2395
Db	2438	GCATTTGTAATTTGAAGATTTGAAACCGGAACTTCACTATCCGAGAGTGGAAAGAGACG	2497
Oy	2396	GAGGCTCTCAACCTGCCAGGCTTGCAATGTCCTTTGCTGTGCAAGACGAGACGCTCT	2455
Db	2498	AAGGCTCTTACACCTGCCAGGATGCAATGTTCTTGGCTGTGCAAAAGTGGAGCATTTT	2557
Oy	2456	TCATTAATGAAAGGTGCCCAAGAAAAGCAACCTTGGAAATCATTAATCTCTGCGCACTG	2515
Db	2558	TCATTAATGAAAGGTGCCCAAGAAAAGCAACCTTGGAAATCATTAATCTTAAAGGACGCG	2617
Oy	2516	CAGGATTTGCATGTTCTTTGCGCTCTTTGTCATATGTCCTTCCGACCGTTAAAGGCGG	2575
Db	2618	CGGATTTGCCATGTTCTTTGCGCTCTTTGTCATATCTTACCTTACCGACCTTAAAGCGGG	2677
Oy	2576	CCAAATGAAAGGGGAACTGAAGACAGGCTACTGTCTAATTCATGATGATCCAGATGAATTGC	2635
Db	2678	CCAAATGAAAGGGGAACTGAAGACAGGCTACTGTCCATGTCATGATTCAGATGAATCTCC	2737
Oy	2636	CCTTGATGAGCGCTGTGAACGCTTGGCTTATGATGCCAGCAAGTGAGGAAATTTCCCAAGG	2695
Db	2738	CATTGSAATGAACATTTGTGAACGACTGCTTATGATGCCAGCAAAATGGGAATTTCCCAAGAG	2797
Oy	2696	ACCGGCTGAACCTAGGAAACCTCTTGGCCGCGGTGCTTGGCGCAAGTATTTGAAGCAG	2755
Db	2798	ACCGGCTGAACCTAGTAAAGCTCTTGGCCGTGTGCTTTGGCCCAAGTGAATTGAAGCAG	2857
Oy	2756	ACGCTTTTGGAAATTTGAACAAGACAGGCACTTGCAAAAACAGTAGCGGTCAAGATGTTGAAG	2815
Db	2858	ATGCTTTTGGAAATTTGAACAAGACAGCACTTGCAAGACAGTAGCACTCAAAATGTTGAAG	2917
Oy	2816	AAGAGCAACAACAAGCGAGCATGAGCCTCATGTCTGAACCTCAAGATCTCATTCACA	2875
Db	2918	AAGAGCAACAACAAGCGAGCATGAGCCTCATGTCTGAACCTCAAGATCTCATTCATA	2977
Oy	2876	TTTGCTACCAATCTCAATGTGTGAACCTCTTAGGCGCTTGACACCAAGCCGGGAGGGCTC	2935
Db	2978	TTTGCTACCAATCTCAATGTGTGAACCTCTTAGGCTGTGACACCAAGCCGGGAGGGCCAC	3037
Oy	2936	TCATGCTGATTTGTGGAAATTTGCAAGTTTGGAAACCTTAACAATTAATTAAGGGGCAAGA	2995
Db	3038	TCATGCTGATTTGTGGAAATTTGCAAAATTTGAAACCTTCCATTTAATCTTAGAGACCAAGA	3097
Oy	2996	GAAATGAATTTGTTCCCTTAAGACCAAAAGGGGACGCTTCCGCAAGGGCAAGACTAAG	3055
Db	3098	GAAATGAATTTGTCTCCCTTAAGACCAAAAGGGGACGATTCGTCAAGGGAAAGCACTAAG	3157
Oy	3056	TTGGGAGAGCTCTCGTGATCTGAAGAAGACGCTTTGAGACGATCAACGACCGCAAGCT	3115
Db	3158	TTGGAGCAATCTCTGTGATCTGAAGAAGCGGCTTTGAGACGATCAACGAGTGGCCAGAGCT	3217

OY	3116	CTGCCAGCTCAGGCTTTGTTTGAGAGAAATCGCTCACTGATGTAGAGAAAGAAAGACTT	3115
Db	3218	CAGCCACTCTCGAATTTGTGTGAGAGAAAGTCCCTCACTGATGTAGAAAGAAAGAACTC	3277
OY	3176	CTGAAGAACGTGTAACAAGAACTTCTGTGACCTTGAGACATCTCATCTGTTTACAGCTTCCAA	3235
Db	3278	CTGAAGAATCTGTATTAAGAACTTCTCTGACCTTGAGACATCTCATCTGTTTACAGCTTCCAA	3337
OY	3236	TGGCTAAAGGCAATGAGTCTTGGCATCAAGAAAGTGTATCCACAGGAACTTGGCAGAC	3295
Db	3338	TGGCTAAAGGCGATGAGATTTCTTGGCATCGGAAAGTGTATCCACAGGAACTTGGCAGAC	3397
OY	3296	GAACATTTCTCTACGAGAGAAATGTGGTTAAGTCTGACCTTGAGCTTGGCCCGG	3355
Db	3398	GAATATCTCTTATCGAAGAAAGACTGGTTAAATCTTGACTTTGGCTTGGCCCGG	3457
OY	3356	ACATTTATAAGACCCGGAATTAATGTCAAAAAGGAGATGCCCGACTCCCTTTGAAGTGA	3415
Db	3458	ATATTTATAAGATCCAGATTAATGTCAAAAAGGAGATGCCCGCTCCCTTTGAAGATGA	3517
OY	3416	TGGCCCCGGAAACCATTTTGAACAAGATATACAAATTCAGAGGAGTGTGTCTTTG	3475
Db	3518	TGGCCCCGAAGAAATTTTGAACAAGATATACAAATCCAGAGTGTGTGTCTTTTG	3577
OY	3476	GTGTGTGCTCTGAGAAATATTTTCTTAGTGCTCCCATACCTTGAGGTCAAGATTG	3535
Db	3578	GTGTGTGCTGTGGAAATATTTTCTTAGTGCTTCCATATCTGTGGGTAAAGATTG	3637
OY	3536	ATGAAGAAATTTGTAGAGATTTGAAGAAGAACTAGAAATGCCGGCTCTGACTACATA	3595
Db	3638	ATGAAGAAATTTGTAGCGAATGAAMAAGAACTAAGATGAGGGCCCTGATTTATCTA	3697
OY	3596	CCCCAGAAATGTACACAGCCATGTGTGACGTGTGGACATGAGGAGCCCAACACAGAGACCT	3655
Db	3698	CACCAAGAAATGTACCAACCATGTCTGACATGTGTGACAGGGAGCCCAATCAGAGACCA	3757
OY	3656	CGTTTTCAGAGTTGTGAGCAATTTGGGAAACCTCTGCAAGCAAAATGCCAGCAGGATG	3715
Db	3758	CGTTTTCAGAGTTGTGGAACATTTGGGAAATCTCTGCAAGCTAATGTCTCAGCAGGATG	3817
OY	3716	GCAAGACTATATTTGTTCTTCCATGTGCACAGACACTGACATGGAAGAGATTTCTGTAC	3775
Db	3818	GCAAGACTATCATTTGTTCTTCCGATATCAAGACTTTGACATGGAAGAGGATTTCTGTAC	3877
OY	3776	TCTCTCGCTACTCTCACTGTGTTCTCTGTATGAGAGAAAGAAAGTGTGCAACCCCAAT	3835
Db	3878	TCTCTCGCTACTCTCACTGTGTTCTCTGTATGAGAGAGAGAAAGTATGTGACCCCAAT	3937
OY	3836	TCCATTATGACACACACAGCAGGAATCACTGCTATATCTTCCAGAACATGTAAGCGAAAGCC	3895
Db	3938	TCCATTATGACACACACAGCAGGAATCACTGCTATGTCAGAACATGTAAGCGAAAGGCC	3997
OY	3896	GGCAGAGAGGTGTAAAAAATTGGAACATATCCCATTTGAGAGAAACGAAGTAAAGTGA	3955
Db	3998	GGCCTGTAGTGTAAAAAATTGGAACATATCCCGTTAGAAAGAACGAAGTAAAGTGA	4057
OY	3956	TCCCAAGATGACAGCAGACAGACAGTGGATGTGCTTGCATCAAGAAAGCTGAAAACTC	4015
Db	4058	TCCCAAGATGACAAACCAAGACAGTGGTATGTGCTTGCCTCAGAAAGCTGAAAACTT	4117
OY	4016	TGGAAGACAGAACAAATTTATCTTCCATCTTTTGTGGAATGATGCCACATTAAGCGAGG	4075
Db	4118	TGGAAGACAGAACAAATTTATCTTCACTTTTGTGGAATGATGCCACGAAGCGAGG	4177
OY	4076	AGTGTGTGCTCGGAAGGCTCCAAACAGACACAGTGGCTACAGTCTGGGTATCACTCAG	4135
Db	4178	AGTGTGTGCTGTGAAGGCTCAAAACAGACAGAGCGGCTACAGTCCGAGTATCACTCCG	4237
OY	4136	ATGACACAGACACCACTGTGTATCTCAAGCAACAGCAGAGACTTTTAAAGTGTGTGAT	4195
Db	4238	ATGACACAGACACCACTGTGTATCTCAAGTGAAGAGAGAACTTTTAAAGTGTGTATGAGA	4297

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Oy 4196 CTGAG-----TTACCGCTGACTCGAGGACCACTACG 4228
Db 4298 TTGGAGTGAACCGGTAGACACGCCAGATTCTCAGCTGTAGCTGGGACCACTA 4357
Oy 4229 GCTCACCTCTGTTAAATGAAAGTGTCTGTCCGAGCTCGGCCCACTCTGGAAA 4288
Db 4358 GCTCTCTCTCTTTAAAGAAAG-----CATCCACACCCCACTCCCGACA 4405
Oy 4289 TCACGAGAGAGGCTGCTTAGATTTTCAAGTGTGTCTTCCACCAACCCGGAAGTAC 4348
Db 4406 TCACATGAAGAGT-CTGTCAAGATTGTAAGTGTGTCTTCCACACAGAGAAATAC 4464
Oy 4349 CACATTGATTTTCAATTT-----TTGAGAGAGGAGCTGAGCTGCAAGAGCTGTCT 4403
Db 4465 GCGATTGATTTTCAATTTGAGACAAGAAAAAGAGCTGGAGCTGAGGAGGAGCTCTT 4524
Oy 4404 CAGGGCATTTCCAGAGAGATGCCATGACCCAGAAAT-----GTG 4444
Db 4525 CTAGGCTATCTCTG-GAAGAGGCTGTGTGACCAAGAAATGTGTGTCTCTCCAGTG 4583
Oy 4445 TTGACTTACTCTCTTTTCAATTTCAATTTAAAGTCTATATATATGCTGTGTGTCT 4504
Db 4584 TTGACTTGTCTCTCTTTTCAATTTCAATTTAAAGATATATATATGCTGTGTGTCT 4643
Oy 4505 TCACATGAGTAAAGCAAAAGACTTTCAACAGCTGAGCTGTCTCTCAAGAAAGTGC 4564
Db 4644 TCACATGAGTAAAGCAAAAGAGCTTCAAGCA--ATGCCCTCATCTCAAGAAAGTGC 4701
Oy 4565 A-----ACGGCACTCTGTGAAAGCTGATCGAATGAGGCAATGCTTGTGTGT 4612
Db 4702 AGTACCTGGGAGCTGACACTTCTGTAAACTGAAAGATTAACAGGCAACGTAAGTGT 4761
Oy 4613 GAGGATGGGTGATGTCCAG-----GGCCGAGTCTGTCTACTTGTGAGGCTTTGTGAG 4668
Db 4762 CGAGGTGTGAAAGATGAGGAAAGATTGCAAGGCTGATGTATCAAGAGGCTTTGTGAG 4821
Oy 4669 GATGCGGCT-ATGAGCCAAAGTGTAAAGTGTGAGTGTGAGCTGGAGGAAAGAGCGCA 4727
Db 4822 GACGTGGGTCCCAAGCCAAAGCTTTAAAGTGTGAGTGTGAGTGTGAGGAAAGAGCTAA 4881
Oy 4728 AG-----TCGCTCGAGAGCGGTTGAGCTGCAATGCAATGCTGTGTGTGAG 4782
Db 4882 CGTTACTTGTGAGAGAGTACTGAGAGCTGCAATGCAATGCTGTGTGTGAG 4941
Oy 4783 GTGGGCTGTGGCTGTGAGAAAGCAAGCGGCGCGGAGGCTTTGTGAGAGT 4842
Db 4942 GTGGGCTGTGGCTGTGAGAAAGTAAAGGCTTCAAGCGGAGTGTGTGAGAG 5001
Oy 4843 TTGCGTGTCTTCAAGTGTGAGGCTTCAAGGAGAGTCTCTGTGAGGCTTCTACTCTAT 4902
Db 5002 GTTGGGTGTCTTCAAGTGTGAGGCTTCAAGGAGAGTCTGTGTGTGTGTGTGTGTAT 5061
Oy 4903 GAGAGTCTCTTCCGAGCTCTTACGTGTCTGTGCGCTGTGCGCCAGAGAAAGATATGCA 4962
Db 5062 GAGAGTCTCTTCCGAGCTCTTACGTGTCTGTGCGCAAGCCAGAGAAAGATATGCA 5121
Oy 4963 GCTTGTCTCTTCTATCTCTGAGCTGTGCTGTAAATTCAGAACCAACAAAGAGAGAC 5022
Db 5122 GCT-CTGAGCTCTTGTCTTCCAGGCTGTATCTTATTCAGAAATCAACAAAGAGAGAC 5179
Oy 5023 GT--CGGAGAGGCTCTGACCGGCGCGAAGATGTGAGAACAAAGCAAACTCAAGG 5080
Db 5180 ATTGAGCTCAAGGCTCTGCGGCTGTGAGAGTCTGACGTGCAAAACAGAGCTTGTGT 5239
Oy 5081 TTTCTGTGGGTGAGACCCAGCTGC-----GCCCTGTGTGAGAGTCT 5124
Db 5240 TTCTTCTGGAATGATACCTCATATCTGTCTGATGTGATGTCTGAGATGATGCG 5299
Oy 5125 GAGGCTTCTGTGAA-----GTGGGCGTAAAGCTCAAGCTGTGTCTTCTCTAT 5177
Db 5300 GAGGCTTCAATGTAGAGCTGTGTGTGTCAAGATTTCAAGAGAAATTTTACCTTTTG 5359
Oy 5178 CTCACCTC-----TGTCAAGGCCCAAGTCTCAAGTATTTTGTGAGTGTGTG 5223

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Db 5360 TTTCTTCCCTGTGCCCCAACCCACTCTACCCCGAACCATTAGATTATTTG 5419
Oy 5224 GCTTCTGATGCGAGAAAATTTTAATGTTGTTGCTTCTCAGATATACATGCA 5283
Db 5420 G---CCTTACTCTCAGTAAACCTGATGGTGTGTTCACTCTGATATATATGCA 5476
Oy 5284 GATTTCGAATTAATTTTATGCGGAGTATGATAATCATCTGATCTTATAGAAATT 5343
Db 5477 GACTTCAAAATTAATTTATATAGCCA--NATTAATCACTATATGATATATATGACTTT 5533
Oy 5344 TAACCTATTAACATATGCTACTGTGTTCTGCTGTGTCT 5384
Db 5534 TAACATATAGACTATTTCTACTGATTTTGTGCTGTGTCT 5574

RESULT 13
US-10-159-563-338
; Sequence 338, Application US/10159563
; Publication No. US20040009154A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Javed
; APPLICANT: Ringner, Markus
; APPLICANT: Peterson, Carsten
; APPLICANT: Meltzer, Paul
; TITLE OF INVENTION: SELECTIONS OF GENES AND METHODS OF USING THE SAME FOR
; FILE REFERENCE: 11613, 56US11
; CURRENT APPLICATION NUMBER: US/10/159,563
; PRIOR FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 10/133,937
; NUMBER OF SEQ ID NOS: 444
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 338
; LENGTH: 5830
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-159-563-338

Query Match 61.6%; Score 3317.8; DB 6; Length 5830;
Best Local Similarity 78.4%; Pred. No. 0;
Matches 4314; Conservative 0; Mismatches 1027; Indels 160; Gaps 22;

Oy 14 CCGGATTAACCTGAGCTGACCCCAATTTCCGCGAGACCGCTGACAGCG-CCGCTGAGCCAGG 72
Db 104 CTGATATCTCTCTTCTTACCGGACCCGAGAGCGCCCTGACGCCCGGTGCGCCCG 163
Oy 73 GCGCGGAGTCCCGGCTCTCCCGGCTGTGCGCTGCGGAGGCA-----TACCGGCTCT 127
Db 164 GCTCTCTGAGCTGTGCGCTCACTGTCTGTGCGGAGTGTGCGGAGTGTGCACTTCC 223
Oy 128 GTGACTTTTGTGCGGCGCAGGAGCAGAGAGTCTGTGCTGTGAAACTGTGGCTCTGT 187
Db 224 GCGGCTCTCTCTTCTGAGACAGGCGCTGGGAGAAAGACCGGCTCCGAGTGTGGCAATT 283
Oy 188 GCCCAGGCGCAGAGTGTGAGATGAGAGCAGAGGCGCTGTACTGTCTGTGTGTCT 247
Db 284 GCGCGGCTGTGAGTGTGAGATGAGAGCAGAGTGTGTGTGTGTGTGTGTGTGTGTGT 343
Oy 248 GCGTGAAGACCCGAGCGCTCTGTGAGTGTGAGTGTGAGTGTGTGTGTGTGTGTGTGT 307
Db 344 GCGTGAAGACCCGAGCGCTCTGTGAGTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGT 403
Oy 308 TCAGCACAAGAAAGACATCTGACATTTTGTGCAATATACAACTTCAAGATTTACTTGA 367
Db 404 TCAGCATAAAGAAAGACATCTGACATTTTGTGCAATATATACAACTTCAAGATTTACTTGA 463
Oy 368 GCGGACAGCGGAGCTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 427
Db 464 GCGGACAGAGGAGCTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 523
Oy 428 TATTGTGATGAAATGTGCGGCGGTGTGACAGTATCTTGTGAAACACTCACTCATTTCCA 487

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Db 524 TGGAGGTGACTGAGTGCACCGATG-----GCCCTCTTCTGTAAAGACATCCAAATTCCAA 577

Qy 488 GGGTGGTTGGAAATGATTAAGAGCTCAACAGTGTCTGTACCGGAGCGTGCATATAGCT 547

Db 578 AAGTGAATCGAAATGACATCGAGGCTTACAAGTGTCTTACCGGAAACTGATTTGGCT 637

Qy 548 CCACTGTTATATGTCTATGTGTCGAGATTACAGATCACCAATTCAATGCCCTGTGCATGACC 607

Db 638 CGGTCAATTTATGTCTATGTGTTCAAGATTACAGATCTCCATTTATTTGGCTTCTGTATGACC 697

Qy 608 AACATGCGCATTCGGTATCATCACCGAACAAGAACAAACTGTGTGTATTCCTCCCTGCCGAG 667

Db 698 AACATGAGTTCGGTACATTATCTGAAGAACAAACAAATGTGGTATTCATTCATGCTCG 757

Qy 668 GGTGCAATTCAAACCTCAATGTGTCTCTTGTGCGCTAGTATCCAGAAAGAGATTTGTTTC 727

Db 758 GGTCAATTCCAATCTCAACGTGTCACTTTGTGTCAAGATACCGAAGAAAGATTTGTTTC 817

Qy 728 CGGATGGAACAGAAATTTCTGTGGACAGCGAGATGAGCTTTACTCTCCCGATTACATGA 787

Db 818 CTGATGTGTAAACAGAAATTTCTGTGGACAGCAAGAGGGCTTTATCTATTTCCAGCTACATGA 877

Qy 788 TCAGCTATGCCGCGCATGTGTCTTGTGTAGGCAAGATCAATGATGAACCTATCACTCTA 847

Db 878 TCAGCTATGTCCGCAAGTCTTCTGTGAAGCAAAAATTATGTATGAAGTTMACAGTCTA 937

Qy 848 TCATGTACATTAAGTGTGTGTGTAGATATAGATTTATGATGTGATTTCTGAGCCCCCG 907

Db 938 TTAATGTACATTAAGT 997

Qy 908 ATGAAATTGAGCTATCTGCGGAGCAAAATTTGTCTTAAATTGTACAGCGAGAACAGAG 967

Db 998 ATGGAATTTGAATCTATCTGTGTGAAGAAAGCTTGTCTTAAATTGTACAGCAAGATCTGAAC 105

Qy 968 TCATATGTGGGCTTGAATTTCACTGTGCACCTTCAAGTCTCATATTAAGAGA 102

Db 1058 TAAATGTGTGGGATGTGACTTCAACCTGGGAATCCCTTTCTTGAAGCATCAAGCATMAAGAAC 111

Qy 1028 TTGTAAACCGGGATGTGAACCCCTTTCCTGGGACGTGTGGGAGATGTTTGTAGACCT 108

Db 1118 TTGTAAACCGGAGCTTAAAAACCCAGTCTGTGGAGTATGATGAAGAAATTTTGTAGACCT 117

Qy 1088 TGACATATGAAGTGTGACCAAGATGTACCAAGGGGAAATACCTGTGTATGCTCCAGTG 114

Db 1178 TAACTATATAGTGTGTAAACCCGAGATGACCAAGATTTGTATACCTGTGACGATCCAGTG 123

Qy 1148 GACGGAATGATCAAGAGAAATTAAGACATTTGTCCGAGTTCAACAAAGCCTTTATTTGCTT 120

Db 1238 GCGTGTGTGACCAAGAGAAACAGCACATTTGTGCGGGTGCATGAAAAACCTTTTGTGCTT 129

Qy 1208 TGGGATGTGGGATGTGAATCTTTGTGTGAAGCCACATGGGCGAGTCAAGTCCGAATCCCTG 126

Db 1298 TTGGAAGTGTGATGTGATCTTGTGTGAAGCCAGGTGTGGGAGCGTGTAGATCCCTG 135

Qy 1268 TGAAGTATCTCAGTTAACCCAGCTCTGTATATCAATGTGTACAGAAATGGAAGGCCATTG 132

Db 1358 CGAAGTACTTGGTTTACCCACCCCGAAGAAATTAAGATTAAGAAATGGAATACCCCTTG 141

Qy 1328 AGTCCACTACACATGATGTTGTTGGCATGAATCTCAACCATCATGGAAGTGAATGAAGAG 138

Db 1418 AGTCCATATCACAAATTAAGCGGGGACATGACTGATGAAATGGAAGAGAG 147

Qy 1388 ATGCAAGGAATCAACACGGTATCTCTCAACCAACCCCATTTCAATGGAAGAAACAGAGCAC 144

Db 1478 AACAGGAATTAACATCTGTATCTTTAACATCCATTTCAAGGAGAACAGAGCCATG 153

Qy 1448 TGGTCTCTCTGGTTGTGAATGTGCCACCCAGATCGGTGAGAAAGCCTTGATCTGCCTA 150

Db 1538 TGGTCTCTCTGGTTGTGTATGTGCCACCCAGATTTGTGTGAAGAAATCTTATATTTCTCTG 159

Qy 1508 TGGATTTCTTACAGATGTGGAGCCATGACAGATTTGACATGACAGTCTTACGCCAACCTTC 156

Db	1538	TGGATTCTCACCGAGTACGGCACCACTCAAACGCTGACATGTAACGCTCTATGTCATTCTC	165
Qy	1568	CCCTGACCAACATCCAGTGTACTGSCAGCTAGAGAAGCCTGTCTTACAGACCCGGCC	1627
Db	1658	CCCGGCATCAATCCACTGTGTAATTGGCAGTTTGGAGGAAGAGTGGCCAAACGACCC	1717
Qy	1628	AA-----ACAGCCCGTATGCTTGTAAAGAAATGAGACACGTGAGCAATTTCC	1675
Db	1718	AAGCTGTCTCAGTGCAAACCCATCCTCTTGTGAAGAAATGAGAAATGTGAGGACCTTCC	1777
Qy	1676	AGGGGGGAAAACAAGATGCAAGTCACAAAACAATATAGCCCTGATTGAAGAAAAACA	1735
Db	1778	AGGGAGAAAATAAATTAAGTTAATAAAAATCAATTGCTCTTAATTAGAGAAAAACA	1833
Qy	1736	AAACTGTAAATACGCTGTGTCATCCAAAGCTGCMAACGTGCAGCTTGTACAAATGTGAAG	1795
Db	1838	AAACTGTAAATACCTTGTATCCAAAGCGGCAATGTGTCAAGCTTTGTACAAATGTGAAG	1897
Qy	1786	CCATCAACAAAGCGGGACGAGAGAGAGGTCATCTCTTCATGTGATCAAGGGTCTG	1855
Db	1898	CGGTCAACAAAGTCGGAGAGAGAGAGGTCATCTCTTCACAGTCACAGGGGTCTCG	1957
Qy	1856	AAATTACTGTGCAACCTGCTGCCACCACTGAGACGAGAGAGTGTCCCTGTTTGCA	1915
Db	1958	AAATTACTTGTCAACCTGACATCAATGAGCCCACTGACGAGAGAGAGGTGTCTTTGTGTC	2017
Qy	1916	CTGCAGACAGAAATCTGTTTGAAGAACTCAAGTGTACAAAGCTTGCTCAACAGGCACAT	1975
Db	2018	CTGCAGACAGATCTACGTTTGAAGAACTCAATGTATCAACCTTGCCCAAGCTCTGC	2077
Qy	1976	CGGTCCACATGGGCGAATCACTCAACACAGTTTGCAAGAACTTGTGATCTCTTTGAAAAC	2035
Db	2078	CAATCCATGTGGAGAGTGGCCCAACCTGTTTCAAGAACTTGGATACTCTTTGGAAT	2137
Qy	2036	TGAATGGACCAATGTTTTCTTAAACAGCACAAAATGACATTTGATTTGTGCATTTACAGATG	2095
Db	2138	TGAATGCCACATGTTCTTAAATAGCAAAATGACATTTTATCATGAGAGCTTAAAGATG	2197
Qy	2096	CCTCTCTCAGAGACCAAGGCGACTATGTTTCTCTGCTCAAGATTAAGAACCAAGAAA	2155
Db	2198	CATCTTGACAGAACCAAGAGACATATGTGTCTGCTTGCTCAAGACAGAGAACCAAGAAA	2257
Qy	2156	GACATTTGCTGTGTCAACAGGTCATATCTAGAGCGCAGTGCACCCATGATCAACCGGA	2215
Db	2258	GACATTTGCTGTGTCAACAGGTCATATCTAGAGCGTGTGCACCCAGATCAACAGGA	2317
Qy	2216	ATCTGGAACATCAACACAAACCATTTGGCGAGACCATTGAAGTACTTGGCCAGATCTG	2275
Db	2318	ACCTGGAACATCAACAGCAAAATTTGGGGAACATCGAAGTCTCAAGCACCGGATCTG	2377
Qy	2276	GAAATCTTAAACCCACACATTAATGAGTTCAAGAACAAACGACACCTGTGTAAAGATTCAG	2335
Db	2378	GAAATCTTAAACCCCTCCACAGATCAATGTGTGTTTAAAGATTAATGAACCTTGTGTAAAGATTCAG	2437
Qy	2336	GCAATTTGTAAGAGATGAGAACCGGAACCTGAATATCCGAGGAGTGAAGAGAGATG	2395
Db	2438	GCAATTTGTAAGAGATGAGAACCGGAACCTGAATATCCGAGATGAAGAGAGAGATG	2497
Qy	2386	GAGGCTCTTAACTGCTGCGAGGCTGCAATGTCTTGGCTGTGCAAGACGAGACGCTCT	2455
Db	2498	AAGGCTCTTAACTGCTGCGAGGCTGCAATGTCTTGGCTGTGCAAAAGTGAAGCAATTTT	2557
Qy	2456	TCATTAATGAAGGTGCCAGGAAAAAGACCAATTTGGAAGTCAATATCTCGTCCGACATG	2515
Db	2558	TCATTAATGAAGGTGCCAGGAAAAAGACCAATTTGGAAGTCAATATCTCGTCCGACATG	2617
Qy	2516	CAGTGAATGCCATGTTCTTCTGCGCTCTCTTCTGTCAATGTCTTACGACCGTTAAGCGGG	2575
Db	2618	CGGTGAATGCCATGTTCTTCTGCGCTCTCTTCTGTCAATGTCTTACGACCGTTAAGCGGG	2677
Qy	2576	CCAATGAAGGGAACTGAAGACAGGCTTATCTGTCTATTTGTCATGATTCAGATGAATTC	2635
Db	2678	CCAATGAAGGGAACTGAAGACAGGCTTATCTGTCAATGTCTTACGATGATTCAGATGAATTC	2733

QY	2636	CTTGGATGAGCGCTGTGAAGCGCTTGCTTATGATGCACGAAGTGGAAATTTCCCAAGG	2695
Db	2738	CATTGGAATGAACATTGTGTAAACGACCTGCTTATGATGCACGAAGTGGAAATTTCCCAAG	2797
QY	2696	ACCGGCTAAACTAGAGAAACCTCTGGCCCGCGGCTCTTGCCCAAGTATTTGACGAC	2755
Db	2798	ACCGGCTAAAGTATGATAGCGCTCTTGGCCCGGCGCTCTTGGCCCAAGTATTTGACGAC	2857
QY	2756	ACGCTTTTGGAAATTTGACAAAGACAGCGCATTTGCCAAAACGTAGCCGTCAAGATGTTGAAAG	2815
Db	2858	ATGCTTTTGGAAATTTGACAAAGACAGCACTTTCAGACAGTACGATCMAATGTTGAAAG	2917
QY	2816	AAGAGCAACACACAGCGACATGAGCCCTCATGTCTGAACTGAAATCTCATCCACA	2875
Db	2918	AAGAGCAACACACAGTAGGATCGAGCTCTCATGTCTGAACTGAAATCTCATCCACA	2977
QY	2876	TTGGTCAACATCTGAAATGTGTGMACTCTCCTAGGCGCTGCAACCAAGCCGGAGGCGCTC	2935
Db	2978	TTGGTCAACATCTGAAATGTGTGMACTCTCCTAGGCGCTGCAACCAAGGAGGCGCAC	3037
QY	2936	TCATGATGATTTGTGGAATTTCTGCAAGTTTGGAAACCTTACCACTTACTTACGGGGCAGA	2995
Db	3038	TCATGATGATTTGTGGAATTTCTGCAAAATTTGGAAACCTTCCACTTACGGAGCAAGA	3097
QY	2996	GAATGAAATTTGTCCCTTATTAAGACAAAGGGGACGCTTCCGCAAGGACCAAGACTACG	3055
Db	3098	GAATGAAATTTGTCCCTTACAAAGCAAAAGGGGACGATTCGTCMAAGGAAACACTACG	3157
QY	3056	TTGGGGAGCTCTCCGTGATCTGAAAGAAGCTTTGACAGCATACACAGACCAAGACT	3115
Db	3158	TTGGGAGCAATCCCTGTGTGATCTGAAACCGGCGCTTGGACAGCATACCAAGTGCAGAGCT	3217
QY	3116	CTGCAGGCTCAGGCTTTGTGAGGAGAAATGGCTCAGTACGATGTAGAGAGAAAGAACACTT	3175
Db	3218	CAGCCAGCTCTGGAATTTGTGAGGAGAAATGCCCTCAGTACGATGTAGAGAGAGAAAGACTC	3277
QY	3176	CTGAAGAACTGTACAGAGACTTCTCTGACCTTGGAGACATCTCATCTGTTTACAGCTTCCAAG	3235
Db	3278	CTGAAGAACTGTATTAAGAGACTTCTCTGACCTTGGAGACATCTCATCTGTTTACAGCTTCCAAG	3337
QY	3236	TGGCTAAGGGCAATGAGATTCTTGGCATCAAGAAAGTGTATTCACAGAGACCTGGCAGCAC	3295
Db	3338	TGGCTAAGGGCATGAGATTCTTGGCATCGCCAAAGTGTATTCACAGAGAGACCTGGCGCAC	3397
QY	3296	GAACATCTCTCTATCCGAGAAAGATGTGTTAAGATCTGTGACCTTGGCGCTGGCCCGGG	3355
Db	3398	GAATATCTCTTATTCGAGAAAGACGTGTAAATCTGTGACTTTTGGCTTGGCCCGGG	3457
QY	3356	ACATTTTAAAGACCCCGGATATGTTCAGAAAGAGAGATGCCCGACTCCCTTTGAAATGGA	3415
Db	3458	ATATTTTAAAGATCTCAGATTATGTTCAGAAAGAGAGATGCTCGCTTCCCTTTGAAATGGA	3517
QY	3416	TGGCCCCGGAAACCAATTTTGAACAGATATACAAATTCAGAGGATGTGTGCTTTTCG	3475
Db	3518	TGGCCCCGAGAAACAATTTTGAACAGATGTACAAATTCAGAGATGATGTGTGCTTTTTCG	3577
QY	3476	GTTGTGTTCTCTGGGAAATATTTTCTTAAAGTGTGCTCCCAATACCTCGGGGTCAAGATTG	3535
Db	3578	GTTGTGTTCTCTGGGAAATATTTTCTTAAAGTGTGCTTCCATATCTCGGGGTCAAGATTG	3637
QY	3536	ATGAAGAATTTTGTAGAGATTGGAAGAGAACTAGAAATGCGGGGCTCTGACTACACTA	3595
Db	3638	ATGAAGAATTTTGTAGGCGATTGGAAGAGAACTAGAAATGAGGGGCCCTGATTTATCTA	3697
QY	3596	CCCCAGAAATGTACCAAGCCATGCTGGAATGTGCGCATGAGAACCCCAACCAAGAACCTT	3655
Db	3698	CACCAAGAAATGTACCAAGCCATGCTGGAATGTGCGCATGAGAACCCCAACCAAGAACCA	3757
QY	3656	CGTTTTCAGATTTGTGAGATTTTGGGAAACCTCTCTGCAAGCAAAATGCGCAGCAGGATG	3715
Db	3758	CGTTTTCAGATTTGTGAGATTTTGGGAAATCTCTTGCAGCTTAAATGCTCAGCAGGATG	3817

QY	3716	GCMAAGACTATTTGTTCTTCCAAATGTCAAGACACTGACATGGAAAGATTCTGAC	3775
Db	3818	GCMAAGACTATTTGTTCTTCCGAATATAGACACTTTCAGATGGAAGATTCTGAC	3877
QY	3776	TCCTCCGTGCTTACCTCACCTGTTTCCTGTATGGAGGAAGAGAAATGTGCGACCCCAAT	3835
Db	3878	TCTCTCTGCTTACTCTCACCTGTTTCTGTATGGAGGAAGAGAAATGTGACCCCAAT	3937
QY	3836	TCCATTTATGACAACAAGAGAAATCACTCATTTATCTTCAGAAAGTAAAGCAAGCC	3895
Db	3938	TCCATTTATGACAACAAGAGAAATCACTCATTTATCTTCAGAAAGTAAAGCAAGCC	3997
QY	3896	GCCCACTGATGTATAAAACATTTGAAATATCCCAATGGAGAAACGAAGTAAAGTGA	3955
Db	3998	GCCCTGTATGTATATAAAACATTTGAAATATCCCGTTATGAAAGAACGAAGTAAAGTAA	4057
QY	3956	TCGCAGATGACAGCCAGACAGACAGTGGAGATGTCCTTGATCTCAAGAGCTGAAATCTC	4015
Db	4058	TCCCAAGATGACACCAAGACGAGACAGTGTATGTGTTCTTGCTCAAGAGCTGAAATCTT	4117
QY	4016	TGGAAGACAGAAACAATTTATCTCCATCTTTTGGTGGATGATGATCCAGTAAAGACAGG	4075
Db	4118	TGGAAGACAGAAACAATTTATCTCCATCTTTTGGTGGATGATGATCCAGCAAAAGACAGG	4177
QY	4076	AGTCTGTGGCTCGAAGGCTTCAACCAAGACCAAGCTGACAGTCTGGATATCACTCAG	4135
Db	4178	AGTCTGTGGCACTGGAAGGCTCAAAACCAAGACCAAGCTGACAGTCTGGATATCACTCG	4237
QY	4136	ATGAACACAGAACCAACCGTGTATCTCCAGCAGAGCAGAGACTTTTAAATGTGTGATG	4195
Db	4238	ATGAACACAGAACCAACCGTGTATCTCCAGTGGAGAGAGAACTTTTAAAGCTGTATACAGA	4297
QY	4136	CTGCAG-----TTCAAGCTGACTCAAGGACCACTGC	4228
Db	4298	TTGAGATGCCAAACCGTATGACACAGCCAGATTTCTCAGCTGACTCGGGACCACTGA	4357
QY	4229	GCTCACTCTCTGTTTAAATGGAAGTGTCTGTCCGGCTCCGCCCACTCTCTGAAA	4288
Db	4358	GCTCTCTCTCTGTTTAAAGGAAG-----CATCCACACCCCACTCCCGACA	4405
QY	4289	TCACGAGAGATGCTGCTTATGATTTTCAAGTGTGTTCTTCCACCAACCCGGAAGTAC	4348
Db	4406	TCACATGAGAGAT--CTGCTCAGATTTGAAATGTGTTCTTCCACCAAGAGAAATGAC	4464
QY	4349	CACATTTATTTTCATTT-----TTGGAGAGGACCTCAGACTGCAAGAGACTTGCT	4403
Db	4465	CGCATTTATTTTCATTTTCGACCAACAGAAAAGAACCTCGGACTGCAAGGACCAAGTCTT	4524
QY	4404	CAGGCACTTTCAGAGAAATGCCATGACCCCAAGAT-----GTG	4444
Db	4525	CTAAGCATATCTGT--GAAGAAGCTTGTGACCCAAAGAAATGTGTGTGTCTTCTCCACGTG	4583
QY	4445	TTGACTCTACTCTCTTTTCCATTCATTTAAAGTCTATATTAATGTGCTGCTGTGCTC	4504
Db	4584	TTGACCTGTATCTCTTTTTCATTTCAATTTAAAGCAATTTATCATGTGCCCTGTGCGGCTC	4643
QY	4505	TCACATCAAGTTAAAGCAAAACCTTCAACACGTGACCTGTGCTCTCCAGAAAGTGGC	4564
Db	4644	TCACATCAAGTTTAAAGCAAAAGCACTTCAGCA--ATGCCCCATCTCTCAAGAAAGTATG	4701
QY	4565	A-----ACGGCACTCTGTGAAACTGGATGAAATGGGCAATGCTTGTGTGTGTT	4612
Db	4702	AGTACCTGTGGAGCTGACACTTCTGTAAACTTGAATTAACCAAGCAACGTAAATGTGTT	4761
QY	4613	GAGATGGGTATATGATTCAG-----GCCGAGTCTGTCTTACTTGGAGGCTTTGTGAG	4668
Db	4762	CGAGGTGTAAAGATGGGAAGGATTTTCAGGGCTGATCTATCTCAAGAGGACTTTGTATTAG	4821
QY	4669	GATGCGGCT--ATGAGCCAAAGTTAAATGTGGATGTGGAATGGAATGGGAGGAAGGACCA	4727
Db	4822	GACGTGGTCCCAAGCCAAAGCTTTAATGTGTGAATTCGGATTATTAAGAAAGGAAGATTA	4881
QY	4728	AG-----TCGCTCGAAGAGCGGTGGAGCTGTGACATGATCATTTGTGTGCTCTGTGTGAG	4782

Db	4882	CGTTACCTTGGCTTTGGAGAGTAACTGAGACCTTGCAAAATGCAATTTGTGTGCTCTGTGGAG	49411
Oy	4783	GTGGGCTTTGTGGCTGTGTGACAGAAACGCAAGGCGGCGGACAGGGTTTGGTGGAGGT	48422
Db	4942	GTGGGCAATGGGGTCTGTCTGTGAAATGTAAAGGGTTCAACAGGGGGTTTCTGGTTTTAGAG	50010
Oy	4843	TTGGGTGTCTTTCACAGTCGGGTTTACAGCCAGTTCCCTGTGCGCTTTCCTACTCTAAAT	49020
Db	5002	GTGGCGTGTCTTTCAGATTTGGGCTTAAATGTAGATTCGTTGTGCTGTTCCTACTCTAAAT	50611
Oy	4903	GAGAGTTCCTTCCGGACTCTTAACGTGTCTCTGCGCTGCGCCCAAGAAAGAAATGATCA	49622
Db	5062	GAGAGTTCCTTCCACACCGTTAGCTGTCTCTCTGCAAGCCCAAGAAAGAAATGATCA	51211
Oy	4963	GCTTGCTCTTCTCTCATCTCTCAGGCTGTGCTTAATTCAAGACCAAAAAGAGAGAAC	50222
Db	5122	GCT--CTGGCTCTTGTGTCTCCAGGCTGATCCTTTATTCAGAAATCCCAAGAAAGAAC	51797
Oy	5023	GT--CGGAGAGGCTCTGACGGGGCGAAGAAATGTAGAAACGAACAGAAACTCAGGG	50800
Db	5180	ATTCAAGCTCAAAAGCTTCCCTGCGCTTTTAAAGATTTCTAAGCTACAAACAGCTTTGGT	52399
Oy	5081	TTTCTGTGCGGTGAGACCACTGGGC-----GCCCTGTGGCAGGTCT	51242
Db	5240	TTCTTCTGGAATGAATACCTCATATCTGTCCGTATGTATATGCTGAGACTGAATGCG	52999
Oy	5125	GAGGTTTCTGTGCA-----GTGGGGTTAAAGCTCAGGCTGTGTCTTCTCTAT	51777
Db	5300	GGAGGTTCAAAATGTGAAGCTGTGTGGTGTCAAAATTTTCAGAAAGAAATTTAACTTTTGG	53599
Oy	5178	CTCCACTGC-----TGTCAAGCCCCCAAGTCTCAGTATTTTAGCTTTGTG	52232
Db	5360	TTCTTCCCCCTGTGCCCAACCACTCTACCCCCGAGAACCACTAGTATTTTAGTATTGG	54199
Oy	5224	GCTTCGTATGAGCAGAAAAATTTAATTTGTTGGTTTGTCTCTCCAGATTAATCACTAGCCA	52833
Db	5420	G---CCTCTACTCCAGTAAACCTGATTTGGGTTTGTCTACTCTGTAATGATTAATAGCCA	54767
Oy	5284	GATTTGCAAAATTAATCTTTTAGCCGAGTTATGATTAACATCTAAGCTATCCTTTAGAAATTT	53433
Db	5477	GACTTCAAAATTAATTTAATTAAGCCCA--AATTAATAACATCTAATGTATTAATTTAGACTTT	55333
Oy	5344	TAACTATAAACTATGTCTACTGTTTCTGCGCTGTGTCT	5384
Db	5534	TAACTATAAGACTATTTCTAATGATTTTGTGCCCTGTGTCT	5574
RESULT 14			
US-10-234-228-7			
: Sequence 7, Application US/10294228			
: Publication No. US20040018176A1			
GENERAL INFORMATION:			
: APPLICANT: Tolentino, Michael J.			
: APPLICANT: Reich, Samuel Jochem			
: TITLE OF INVENTION: Compositions and Methods for siRNA			
: FILE REFERENCE: 43826-1			
: CURRENT APPLICATION NUMBER: US/10/294,228			
: CURRENT FILING DATE: 2002-11-14			
: PRIOR APPLICATION NUMBER: US 60/398,417			
: NUMBER OF SEQ ID NOS: 80			
: SOFTWARE: FastSeq for Windows Version 4.0			
: SEQ ID NO 7			
: LENGTH: 5830			
: TYPE: DNA			
: ORGANISM: Homo sapiens			
: US-10-234-228-7			

Query Match	61.6%;	Score 3317.8;	DB 7;	Length 5830;
Best Local Similarity	78.4%;	Pred. No. 0;		
Matches 4314;	Conservative	0;	Mismatches 1027;	Indels 160;
				Gaps 22;

OY	14	CCGGATAAACCTGGGTGACCCGGATTCGCCGGACACCGCTGACAGCCG-CGGCTGAGAGCCAG	72
Db	104	CTGATATATCTCTCTACCCGGACCCCGAGACGCCCTCTGACAGCCGCCGTGGCCGCCGG	163
OY	73	GGCGCGGTGCCCGCCGGCTCTCCCGGTCTTGCGCTGGCGGGGCCA-----TACCGCTCT	127
Db	164	GCTCCCTTAGCCCTGTGGGCTCAACTGTCTCTGCGCTGGGGGGTGGCGCGAGTTCCACTCC	223
OY	128	GTACTTCTTTGGCGGGCCAGGAGACGAGAGAGAGTCTGTGCTGTAGAAACTGGGCTCTGT	187
Db	224	GCGGCTCTTCTCTAGACAGCGCGCTGGGAGAAACCCGGCTCCGAGTTCTGGGCAATTT	283
OY	188	GCCAGGCGCAGGTGACAGATGAGACAGAGCGGCTCTAGCTGTGCTCTGTGGTCT	247
Db	284	CGCCCGGCTGAGGTGACGAGATCGAGAGCAAGTGTCTGTGGCCGTGGCTCTGTGGCTCT	343
OY	248	GCGTGGAGACCCGAGCCGCTCTGTGGGTTTGACTGGGATTTTCTCCATCCCCCAAGC	307
Db	344	GCGTGGAGACCCGGGCGCCTCTGTGGGTTTGCTAGTGTCTCTTGATCTGGCCAGGC	403
OY	308	TCAGCAACACAAAGACATCTGACAAATTTGGCAATACAAACCTTGAGATTACTTGA	367
Db	404	TCAGATACAAAAAGACATCTTAACAATTAAGCTTAACAATCTTTAAATTACTTGA	463
OY	368	GGGACAGCGGGAACCTGACTGTGCTTTGGCCCAATGTCTCAGCGTATTTCTGAGAAAGG	427
Db	464	GGGACAGAGGGAATTTGGACTGTGCTTTGGCCCAATATCAGATGGCAGTGACGAAAGG	523
OY	428	TATTGTGATCTGAATGCGCGGCTGGTGAAGTATCTTCTGCAAAACATCCACATTTCCA	487
Db	524	TGAGGTGATCTGAATGACGCGATG-----GCTCTTCTGTAAAGCACTCAAAATTCGA	577
OY	488	GGGTGTGTGAATGATACTGAGACCTTACAAAGTCTCGTACCGGGAACGTGACATAGCCT	547
Db	578	AAGTATCGAAATGACACTGGAACCTTACAAAGTCTTCTAACGGGAAACTAGTTGGCT	637
OY	548	CCACTGTTATGTCTATGTTGAGATTTACAGATCACCATTCATGCGCTCTGTCAGTGACC	607
Db	638	CGGTCAATTAATGTCTAATGTTCAAGTATTCAGATCTCCATTAATGCTTCTGTAGTGACC	697
OY	608	AGCATGGATGATGATCACTACCGAGAACAAAGAACTGTGGTATGCCCTGGCAG	667
Db	698	AACATGGAGTGTGTACATTACTGAGAACAAACAAACTGTGGTATTCATGTCTCG	757
OY	668	GGTGGATTTCAAACTCAATGTGTCTTTGGCGTAGGTATCGAAAGAGATTTGTC	727
Db	758	GGTCAATTTCAAACTCAAGTGTCACTTTGTGCAAGTATCCAGAAAGAGATTTGTC	817
OY	728	CGAATGGAACAGAAATTTCTTGGGACAGCGAGATAGGCTTTAATCTCTCCCAATTACATGA	787
Db	818	CTGATGTGAACAGAAATTTCTTGGGACAGCGAGAGAGGCTTTAATCTAATCCAGCTACATGA	877
OY	788	TCACATAGCCGGATGGTCTTCTGTGAGCAAAAGATCAATGATGAACATACATGCTTA	847
Db	878	TCACATAGCTGGCATGTCTTCTGTGAGCAAAATTTAATGATGAAGATTTACAGCTTA	937
OY	848	TCATGTACATAGTTGTGGTGTGAGATATAGGATTTATGATGTGATTTGAGCCCCCGC	907
Db	938	TTATGTACATAGTTGTGGTGTGAGGATATAGATTTATGATGTGGTTCGATGCTGTCT	997
OY	908	ATGAAATTGAGCTATCTGCGGAGAAACCTGTCTTAATTGTACAGCGAGAACAGGC	967
Db	998	ATGAAATTGAACTATCTGTGAGAAAGCTTGTCTTAATTGTACAGCGAGAACCTGAAC	1057
OY	968	TCATATGGGGCTGATTTCACTCTGGCACTCTCAACCTTCAAAGTCTCATATAAGAGA	1027
Db	1058	TAAATGTGGGATTTGACTTCAACTGGGAATACCTTCTTGAAAGATCAGCATTAAGAAC	1117
OY	1028	TTGTAAACCGGAGATGTGAACCTCTTTCTGTGGACTGTGGCGAAGATGTTTTGAGCACTT	1087
Db	1118	TTGTAAACCGGACCTTAATAAACCCAGTCTGGGAGATGATATGAAGAAATTTTGGACACTT	1177

QY 1088 TGACAAATAGAAAGTGTGACCAAGAGTGCACCAAGGGAATACACCTGTGTAGCGTCCAGTG 1147
DB 1178 TAACTATATAGATGGTGTATACCCGAGTGAACCAAGAGTTGTACACCTGTGACGATCCAGTG 1237
QY 1148 GACGATGTATCAAGAGAAATAGAACTTTGTCCGAATTGACACAAAGCCTTTATTGCTT 1207
DB 1238 GGCTGTATGACAAAGAAAGAACAGCACTTTGTCAAGGGTCCATGAAAAACCTTTTGTGCTT 1297
QY 1208 TCGGTAGTGGAGTGAATCTTTGTGTAAGGCCACAGTGGGCAGTCAAGTCCGAATCCCTG 1267
DB 1298 TTGGAAAGTGGCATGAAATCTCTGTGTAAAGCCAGGTGGGGAGCGTGTACAGATCCCTG 1357
QY 1268 TGAAGTATCTCAGTTACCCAGCTCTGATATCAATGTATAGAAATGGAAGGCCCATG 1327
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QY 1328 ACTCCAACTACACATGATTTGTGGGATGAACTCCATCATGGAAGTGACTGAAAGAG 1387
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RESULT 15
US-10-783-528-3
; Sequence 3, Application US/10783528
; Publication No. US20040219579A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Gish, Kurt
; APPLICANT: Wilson, Keith
; TITLE OF INVENTION: METHODS OF DIAGNOSIS OF CANCER, COMPOSITIONS AND
; FILE REFERENCE: 05882, 0191, NPUS01
; CURRENT APPLICATION NUMBER: US/10/783,528
; CURRENT FILING DATE: 2004-02-19
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 5830
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-783-528-3

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Qy	788	TCAGCTATCCGGCATGTCCTTCTGTGAGGCAAGATCAATGATGAACCTTCACTTA	847
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Qy	1208	TCGGATGTGGATGGAATCTTTGTGTGAAGCCACAGTGGGACGTCAAGTCCGAATCCCTG	1267
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Qy	1268	TGAATATCTCAGTTTACCCAGCTCTCTGATATTCATAATTTGTACAGAAATGGAAAGGCCCATTG	1337
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OM nucleic - nucleic search, using bw model

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Title: US-10-090-183-5

Perfect score: 5390

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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5346	99.2	5470	2	US-08-443-861-1
2	5346	99.2	5470	3	US-08-193-829B-1
3	5346	99.2	5470	3	US-09-967-655-10
4	5346	99.2	5470	3	US-09-766-678-1
5	5336.8	99.0	5406	2	US-07-813-593-3
6	5336.8	99.0	5406	2	US-07-977-451-5
7	5336.8	99.0	5406	2	US-07-946-507-3
8	5336.8	99.0	5406	2	US-08-252-517-5
9	5336.8	99.0	5406	2	US-07-906-397A-5
10	5336.8	99.0	5406	2	US-08-601-891-5
11	5336.8	99.0	5406	2	US-09-021-324-5
12	5336.8	99.0	5406	3	US-09-872-136B-5
13	5336.8	99.0	5406	3	US-09-919-408A-5
14	5336.8	99.0	5406	6	PCT-US92-02750-7
15	5336.8	99.0	5406	6	PCT-US92-05401-5
16	5336.8	99.0	5406	6	PCT-US92-09893-5
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25	3024.6	56.1	4071	3	US-10-022-939-1	Sequence 1, Appli
26	2412.4	44.8	2431	3	US-08-985-526-35	Sequence 15, Appli
27	1656.8	30.7	2383	2	US-08-232-538-18	Sequence 18, Appli
28	1656.8	30.7	2383	2	US-08-786-164-18	Sequence 18, Appli
29	1592.4	29.5	2292	2	US-09-142-956B-1	Sequence 16, Appli
30	1420	26.3	2264	2	US-08-232-538-16	Sequence 16, Appli
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32	768	14.2	4014	3	US-09-119-014D-5	Sequence 5, Appli
33	768	14.2	7680	3	US-09-953-318-3	Sequence 3, Appli
34	757	14.0	7718	3	US-09-976-598-244	Sequence 244, App
35	716.2	13.3	4111	3	US-09-375-248-1	Sequence 1, Appli
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39	716.2	13.3	4416	3	US-08-795-430-1	Sequence 1, Appli
40	716.2	13.3	4416	3	US-09-355-700-1	Sequence 1, Appli
41	716.2	13.3	4416	3	US-08-601-132-36	Sequence 36, Appli
42	716.2	13.3	4416	3	US-08-671-573B-36	Sequence 36, Appli
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44	716.2	13.3	4416	3	US-09-534-376A-1	Sequence 1, Appli
45	716.2	13.3	4425	2	US-08-222-616-31	Sequence 31, Appli

ALIGNMENTS

RESULT 1
US-08-443-861-1
; Sequence 1, Application US/08443861
; Patent No. 5851999
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Rissau, Werner
; APPLICANT: Millauner, Birgit
; APPLICANT: Gazit, Aviv
; APPLICANT: Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; TITLE OF INVENTION: Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/443,861
; FILING DATE: 22-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/193,829
; FILING DATE: 09-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; INFORMATION FOR SEQ ID NO. 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5470 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA

FEATURE:
NAME/KEY: CDS
LOCATION: 286..4386
US-08-443-861-1

Query Match 99.2%; Score 5346; DB 2; Length 5470;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

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 RESULT 2
 US-08-193-829B-1
 ; Sequence 1, Application US/08193829B
 ; Patent No. 617401
 ; GENERAL INFORMATION:
 ; APPLICANT: Ulrich, Axel
 ; APPLICANT: Rissau, Werner
 ; APPLICANT: Millauer, Birgit
 ; APPLICANT: Gazit, Aviv
 ; APPLICANT: Levitzki, Alex
 ; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
 ; TITLE OF INVENTION: Endothelial Growth Factor
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Pennile & Edmonds
 ; STREET: 1155 Avenue of the Americas
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 10036-2711
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/193,829B
 ; FILING DATE: 09-FEB-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Coruzzi, Laura A.
 ; REGISTRATION NUMBER: 30,742
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 ; TELECOMMUNICATION INFORMATION:
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 ; TELEFAX: (212)869-9741
 ; TELEX: 66141 PENNIE
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 5470 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: DNA
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 286..4386
 ; US-08-193-829B-1
 Query Match 99.2%; Score 5346; DB 3; Length 5470;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;
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Qy 3839 ATTATGCAACAGAGGAGATGATGATATCTCCAGAACATGTAAGCGAAAGCGCGGC 3898
Db 3917 ATTATGCAACAGAGGAGATGATGATATCTCCAGAACATGTAAGCGAAAGCGCGGC 3976
Qy 3899 CAGTGAATGTAAAAACAATTTGAAGATATCCCATTTGAGAAACAGAAATGAATGATCC 3958
Db 3977 CAGTGAATGTAAAAACAATTTGAAGATATCCCATTTGAGAAACAGAAATGAATGATCC 4036
Qy 3959 CAGATGACAGCCAGACAGACAGATGAGATGCTTGTGATCAAGAAAGACTGAAACTCTGG 4018
Db 4037 CAGATGACAGCCAGACAGACAGATGAGATGCTTGTGATCAAGAAAGACTGAAACTCTGG 4096
Qy 4019 AAGCAAGAAACAATTTATCTCAATCTTTGTGGAATGATGCCAGTAAAAAGAGGAGT 4078
Db 4097 AAGCAAGAAACAATTTATCTCAATCTTTGTGGAATGATGCCAGTAAAAAGAGGAGT 4156
Qy 4079 CTGTGCGCTCGGAAGGCTCCAACCGACAGACAGTGTCTACAGTCTGGATATCACTCAGATG 4138
Db 4157 CTGTGCGCTCGGAAGGCTCCAACCGACAGACAGTGTCTACAGTCTGGATATCACTCAGATG 4216
Qy 4139 ACACAGACACACCGGTATCTCCAGCGACGAGGCAAGACTTTTAAAGATGATGATCTG 4198
Db 4217 ACACAGACACACCGGTATCTCCAGCGACGAGGCAAGACTTTTAAAGATGATGATCTG 4276
Qy 4199 CAGTTCAGGCTGACGAGGACCACTGC-GCTCAGCTCCTGTTAAATGGAATGAGTGC 4257
Db 4277 CAGTTCAGGCTGACGAGGACCACTGCAGCTCAGCTCCTGTTAAATGGAATGAGTGC 4336
Qy 4258 CTGTCCCGGCTCGGCCCCCAACTCTGGAATACAGAGAGGTGCTGTTAGATTTTCA 4317
Db 4337 CTGTCCCGGCTCGGCCCCCAACTCTGGAATACAGAGAGGTGCTGTTAGATTTTCA 4396
Qy 4318 AGTGTGTTCTTTCACCAACCCGGAATGACACATTTGATTTCAATTTTGGAGAGGG 4377
Db 4397 AGTGTGTTCTTTCACCAACCCGGAATGACACATTTGATTTCAATTTTGGAGAGGG 4456
Qy 4378 ACCTCAGACTGCAAGAGGCTTGTCTCAGGGCAATTTCAAGAGAGATGCCATGACCAA 4437
Db 4457 ACCTCAGACTGCAAGAGGCTTGTCTCAGGGCAATTTCAAGAGAGATGCCATGACCAA 4516
Qy 4438 GAATGTGTAATCTACTCTCTTTCATTCATTTAAAGTCTTATTAATGTGCCCTGC 4497
Db 4517 GAATGTGTAATCTACTCTCTTTCATTCATTTAAAGTCTTATTAATGTGCCCTGC 4576
Qy 4498 TGTGCTCTACATACATGTTAAAGCAAAAGCTTTCAAAACAGTGAATCTGTCTCCAG 4557
Db 4577 TGTGCTCTACATACATGTTAAAGCAAAAGCTTTCAAAACAGTGAATCTGTCTCCAG 4636
Qy 4558 AAGTGGCAAGGCAACCTGTGGAATCTGATCGAAATGGGGCAATGCTTGTGTGAGGA 4617
Db 4637 AAGTGGCAAGGCAACCTGTGGAATCTGATCGAAATGGGGCAATGCTTGTGTGAGGA 4696

4618 TGGGTGAGATGTCCAGGGCCGAGTCTGTCTAATTGAGGCTTTGTGAGAGATGC-GGC 4676
4697 TGGGTGAGATGTCCAGGGCCGAGTCTGTCTAATTGAGGCTTTGTGAGAGATGC-GGC 4756
4677 TATGAGCCAAAGTGTAAAGTGTGAGATGTGAGCTGGAGAGAGAGAGCCAAAGTCTGCG 4736
4757 TATGAGCCAAAGTGTAAAGTGTGAGATGTGAGCTGGAGAGAGAGAGCCAAAGTCTGCG 4816
4737 GAGACGGGTGTGAGCTGTGAGATGTGAGCTGTGAGCTGTGAGAGTGGGCTTTGTGAGCC 4796
4817 GAGACGGGTGTGAGCTGTGAGATGTGAGCTGTGAGCTGTGAGAGTGGGCTTTGTGAGCC 4876
4797 TGTCAAGAAACCGAAAGCGGCGCGAGGATTTGGTTTGGAAAGTTTGCATCTTCA 4856
4877 TGTCAAGAAACCGAAAGCGGCGCGAGGATTTGGTTTGGAAAGTTTGCATCTTCA 4936
4857 CAGTCGGGTGTACAGCGAGTTCCTGTGCGGTTTCTTACTCTTAATGAGAGTTCTTCCG 4916
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4997 GACTCTTACGTCTCTCTGAGCTGTGAGCTGTGAGCTGTGAGAGTTCCTTCTCT 5056
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5057 CATCTCTCAGGCTGTGAGCTTAAATTCAGAACACCAAAAGAGAGAAAGTGTGAGAGGCTC 5116
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5177 ACCCACTGTGAGGCGCTGTGAGAGTGTGAGAGTTCCTGTGAGTGTGAGAGGCTC 5236
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5237 AGGCTGTGAGTTCCTCTCTAATCTCACTCTGTGAGGCGCGCAAGCTCAGTATTTTAA 5296
5217 CTTTGTGCTTCCTGATGAGCAAAAATCTTAATGTTGTTTCTCTCCAGATATCA 5276
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5277 CTAGCCAAATTTCCAAATTAATCTTTTAAAGGCTTAAATCACTTACTATCTTT 5336
5357 CTAGCCAAATTTCCAAATTAATCTTTTAAAGGCTTAAATCACTTACTATCTTT 5416
5337 AGAATTTTAACTTAATAAATACTATGCTAATGTTTCTGCTGTGAGTATGTT 5390
5417 AGAATTTTAACTTAATAAATACTATGCTAATGTTTCTGCTGTGAGTATGTT 5470

RESULT 3
US-09-967-655-10
Sequence 10, Application US/09967655
Parent No. 6734017

GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPT
FILE REFERENCE: RUS-0227
CURRENT APPLICATION NUMBER: US/09/967,655
CURRENT FILING DATE: 2001-09-28
NUMBER OF SEQ ID NOS: 95
SEQ ID NO 10
LENGTH: 5470
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: CDS

LOCATION: (286) ... (4389)
US-09-967-655-10

Query Match 99.2%; Score 5346; DB 3; Length 5470;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

1 CTTGTCCCGGAGCC-GAATACTGTGAGACCGGATTCGGGAGACCGCTG-CAGCGG 58
77 CTGTGTCCCGGAGCCGAGATTAATCTGTGAGACCGGATTCGGGAGACCGCTGAGACCGG 136
59 CCGCTGAGACCGGAGCCGAGTGTGAGCCGCTCTCCCGCTTTCGCTGAGCGGAGCAT 118
137 CCGCTGAGACCGGAGCCGAGTGTGAGCCGCTCTCCCGCTTTCGCTGAGCGGAGCAT 196
119 ACCGCTCTGTGACTTTCTTGTGCGGCCAGAGGACGAGAAAGAGTCTGTGAGAACT 178
197 ACCGCTCTGTGACTTTCTTGTGCGGCCAGAGGACGAGAAAGAGTCTGTGAGAACT 256
179 GGGCTGTGAGCCGAGGAGTGTGAGTGTGAGAGAGAGAGGAGTGTGAGTGTGAGTGTG 238
257 GGGCTGTGAGCCGAGGAGTGTGAGTGTGAGAGAGAGAGAGGAGTGTGAGTGTGAGTGTG 316
239 TGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 298
317 TGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 376
299 CCCCCAGCTGACACACAGAAAGATATCTGCAATTTTGGCAAAATACACCTTTGAGA 358
377 CCCCCAGCTGACACACAGAAAGATATCTGCAATTTTGGCAAAATACACCTTTGAGA 436
359 TTACTTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 418
437 TTACTTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 496
419 AGGAAAGGATATTTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 478
497 AGGAAAGGATATTTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 556
479 CCATTCCAGGAGTGTGAGAAATGATATCTGAGGCTTCAAGTGTGAGTGTGAGTGTGAG 538
557 CCATTCCAGGAGTGTGAGAAATGATATCTGAGGCTTCAAGTGTGAGTGTGAGTGTGAG 616
539 ACATAGGCTTCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 598
617 ACATAGGCTTCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 676
599 TCAGTACCAAGCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 658
677 TCAGTACCAAGCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 736
659 CCGTCCGAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 718
737 CCGTCCGAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 796
719 GATTGTCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 778
797 GATTGTCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 856
779 GTTACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 838
857 GTTACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 916
839 ATCAGTCTATCATGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 898
917 ATCAGTCTATCATGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 976
899 GCCCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 958
977 GCCCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1036
959 GAACAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1018

Db 1037 GAACAGAGCTCAATGTGGGGCTTGATTTACCTGGCACTTCACCTTCAAAATCTCATC 1096
Qy 1019 ATAGAAGATTGTAAACCGGGATGTAAACCTTTCTGGGACTGTGGCAAGATGTTTT 1078
Db 1097 ATAGAAGATTGTAAACCGGGATGTAAACCTTTCTGGGACTGTGGCAAGATGTTTT 1156
Qy 1079 TGAGCACTTGAACAATAGAAAGTGTGACCAAGATGACCAAGGGGAATACCTGTGTAG 1138
Db 1157 TGAGCACTTGAACAATAGAAAGTGTGACCAAGATGACCAAGGGGAATACCTGTGTAG 1216
Qy 1139 CGTCAGTGGAGCGATGATCAAGAGAAATAGAACTTTGTCCGAGTTTACCAAAAGCTT 1198
Db 1217 CGTCAGTGGAGCGATGATCAAGAGAAATAGAACTTTGTCCGAGTTTACCAAAAGCTT 1276
Qy 1199 TTATTTGCTTTGCGTATGTGGATGAAATCTTTGTGTGAAGCACAAGTGGGCACTCAAGTCC 1258
Db 1277 TTATTTGCTTTGCGTATGTGGATGAAATCTTTGTGTGAAGCACAAGTGGGCACTCAAGTCC 1336
Qy 1259 GAATCCCTGTGAAGTATCTCAGTTACCCAGCTCTGTATATCAAAATGTATACAGAAATGGA 1318
Db 1337 GAATCCCTGTGAAGTATCTCAGTTACCCAGCTCTGTATATCAAAATGTATACAGAAATGGA 1396
Qy 1319 GGGCCATTGAGTCCAACTACACAAATGTTGTGGGATGAAGTCAACCAATCAATGGAAATGA 1378
Db 1397 GGGCCATTGAGTCCAACTACACAAATGTTGTGGGATGAAGTCAACCAATCAATGGAAATGA 1456
Qy 1379 CTGAAGAAGATGACGAAGAACTACACGGTCACTCTCAACCAACCCATTTCAATGGAGAAAC 1438
Db 1457 CTGAAGAAGATGACGAAGAACTACACGGTCACTCTCAACCAACCCATTTCAATGGAGAAAC 1516
Qy 1439 AGAGCCACATGTGCTCTCTGTGTGTGAATGTCCACCCAGATGTGTGAAGAAAGCTTTGA 1498
Db 1517 AGAGCCACATGTGCTCTCTGTGTGTGAATGTCCACCCAGATGTGTGAAGAAAGCTTTGA 1576
Qy 1499 TCTGCGCTATGATTTCTTACCAAGTATGGGACATGAGACATTTGACATGCAAGCTTACG 1558
Db 1577 TCTGCGCTATGATTTCTTACCAAGTATGGGACATGAGACATTTGACATGCAAGCTTACG 1636
Qy 1559 CCAACCCCTCCCTGACCACTCACTCACTGTGTATCTGGCAGCTAGAAAGCTCTCTTACA 1618
Db 1637 CCAACCCCTCCCTGACCACTCACTCACTGTGTATCTGGCAGCTAGAAAGCTCTCTTACA 1696
Qy 1619 GACCCGGCCAAACAAAGCCCGTATGCTTTTAAAGATGAGACAGTGGAGATTTCCAGG 1678
Db 1697 GACCCGGCCAAACAAAGCCCGTATGCTTTTAAAGATGAGACAGTGGAGATTTCCAGG 1756
Qy 1679 GGGGAAACAAAGATGCAAGATGACCAAAACCAATATGCCGTGATTGAAGGAAAAACA 1738
Db 1757 GGGGAAACAAAGATGCAAGATGACCAAAACCAATATGCCGTGATTGAAGGAAAAACA 1816
Qy 1739 CTGTAAAGTACGCTGTGTCACTCAAGCTGCAACGTGTCAAGCTGTGTCAAAATGTAGGCA 1798
Db 1817 CTGTAAAGTACGCTGTGTCACTCAAGCTGCAACGTGTCAAGCTGTGTGTGAAGGCA 1876
Qy 1799 TCACAAAGCCGGGACGAGAGAGAGGGTCACTCTCTTCATGTGTATCAGGGGTCTTGAA 1858
Db 1877 TCACAAAGCCGGGACGAGAGAGAGGGTCACTCTCTTCATGTGTATCAGGGGTCTTGAA 1936
Qy 1859 TTACTGTGCAACCTGTGCGCCAGCACTGAGCAGAGAGTGTGCCCTGTTGTGCACTG 1918
Db 1937 TTACTGTGCAACCTGTGCGCCAGCACTGAGCAGAGAGTGTGCCCTGTTGTGCACTG 1996
Qy 1919 CAGACAGAAATACGTTTGAGAACTCACTGTGTATCAAGCTTGCTCACAGGCAACATCGG 1978
Db 1997 CAGACAGAAATACGTTTGAGAACTCACTGTGTATCAAGCTTGCTCACAGGCAACATCGG 2056
Qy 1979 TCACATAGGGGATTCATCTCACACAGTTTGAAGAACTTGGAGTCTTTTGAAGCTGA 2038
Db 2057 TCACATAGGGGATTCATCTCACACAGTTTGAAGAACTTGGAGTCTTTTGAAGCTGA 2116
Qy 2039 ATGGACCATGTTTCTTAACAGCAAAATGACATCTTGATTTGTGGCAATTTAGAAATGCT 2098
Db 2117 ATGGACCATGTTTCTTAACAGCAAAATGACATCTTGATTTGTGGCAATTTAGAAATGCT 2176

Qy 2099 CTCTGACGACCAAGGCGCACTATGTTTGTCTGTCTCAAGATTAAGAAAGCAAGAAAGAC 2158
Db 2177 CTCTGACGACCAAGGCGCACTATGTTTGTCTGTCTCAAGATTAAGAAAGCAAGAAAGAC 2236
Qy 2159 ATTGCTGTGTCAACAGCTCATCTCTTGAAGCCGATGGCACCATGATTCACCGAAATC 2218
Db 2237 ATTGCTGTGTCAACAGCTCATCTCTTGAAGCCGATGGCACCATGATTCACCGAAATC 2296
Qy 2219 TGAGAAATCAGACCAACACCTTGGCGAGACCATTTGAAGTACTTGGCCAGCATCTGGA 2278
Db 2297 TGAGAAATCAGACCAACACCTTGGCGAGACCATTTGAAGTACTTGGCCAGCATCTGGA 2356
Qy 2279 ATCTTACCCCAACATTATCAATGTTTCAAGACCAACGAGACCCCTGTAGAAATTCAGGCA 2338
Db 2357 ATCTTACCCCAACATTATCAATGTTTCAAGACCAACGAGACCCCTGTAGAAATTCAGGCA 2416
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Db 2477 GCGTCTACCTGCGCAGGCGCTGCAATGTCTTGGCTGTGCAAGCGGAGACGCTCTTCA 2536
Qy 2459 TAATAGAAGTGCACAGAAAGACCAACTTGAAGTCAATATCTCTCGGCACTGCGAG 2518
Db 2537 TAATAGAAGTGCACAGAAAGACCAACTTGAAGTCAATATCTCTCGGCACTGCGAG 2596
Qy 2519 TGATTCGCAATGTTCTTGTGCTCTTGTGTCAATTTGTCTTACGAGCCGTTAAGGGGCGCA 2578
Db 2597 TGATTCGCAATGTTCTTGTGCTCTTGTGTCAATTTGTCTTACGAGCCGTTAAGGGGCGCA 2656
Qy 2579 ATGAAGGGGAATCTGAACAGAGCTTACTTGTCTATGTCATAGATCCAGATGAATGCGCT 2638
Db 2657 ATGAAGGGGAATCTGAACAGAGCTTACTTGTCTATGTCATAGATCCAGATGAATGCGCT 2716
Qy 2639 TGGATGAGGCTGTGAACGCTTGTCTTATGATGCAAGATGGGAAATTTCCACAGGAC 2698
Db 2717 TGGATGAGGCTGTGAACGCTTGTCTTATGATGCAAGATGGGAAATTTCCACAGGAC 2776
Qy 2699 GGGTGAACCTTAGAAACCTCTTGTGGCCGGGCTGCTTCCGCAAGTATTTAGGACAGAG 2758
Db 2777 GGGTGAACCTTAGAAACCTCTTGTGGCCGGGCTGCTTCCGCAAGTATTTAGGACAGAG 2836
Qy 2759 CTTTGGAAATTTGACAAACAGAGCTTGCAGAAACAGTACGCTCAAGATGTTTGAAGAG 2818
Db 2837 CTTTGGAAATTTGACAAACAGAGCTTGCAGAAACAGTACGCTCAAGATGTTTGAAGAG 2896
Qy 2819 GAGCAACACAGGAGCATCGAGCCCTCATGTCTGAACCTCAAGATCTCATCCACATTTG 2878
Db 2897 GAGCAACACAGGAGCATCGAGCCCTCATGTCTGAACCTCAAGATCTCATCCACATTTG 2956
Qy 2879 GTCAACATCTCAATGTGTGTAACTCTCTAGGCGGCTGCAACAGCCGGGAGGGCTCTCA 2938
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Db 3017 TGGTGAATTTGGAATTTGCAAGTTTGAAGAACTTAACTTAACTTACGGGGCAAGAGAA 3076
Qy 2999 ATGAATTTGTTCCCTATTAAGAGCAAGGGGCAAGCTTCCGCAAGGGCAAGACTTACGTTG 3058
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DB 3257 AAGAACTGTACAGGAATTCTGACCTTGAGAGATCTCATCTGTATACAGCTTCCAAAGTGG 3316
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QY 3419 CCCCCGAAACATTTTGTGACAGATATACAAATTCAGAGCGATGTGTGCTTTGGGTG 3478
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QY 3479 TGTGCTCTGGGAAATATTTTCTTAAAGTGCCTCCCGCATACCTGGGGTCAAGATTGATG 3538
DB 3557 TGTGCTCTGGGAAATATTTTCTTAAAGTGCCTCCCGCATACCTGGGGTCAAGATTGATG 3616
QY 3539 AAGAAATTTGTAGAGATTGAAGAAAGAACTAGAAATGCGGCTCTCTGACTACACTACCC 3598
DB 3617 AAGAAATTTGTAGAGATTGAAGAAAGAACTAGAAATGCGGCTCTCTGACTACACTACCC 3676
QY 3599 CAGAAATGTACCAAGACATGCTGAGATGCTGGCATGAGAACCCCAACAGAGACCTCGT 3658
DB 3677 CAGAAATGTACCAAGACATGCTGAGATGCTGGCATGAGAACCCCAACAGAGACCTCGT 3736
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DB 3737 TTTGAGAGTGTGAGAGATTGGGAAACCTGCTGAGCAAAATGGCGAGAGATGGCA 3796
QY 3719 AAGACTATATTTGTTCTTCCAAATGTACAGACACTGAGCATGGAAGAGATTTCTGACTCT 3778
DB 3797 AAGACTATATTTGTTCTTCCAAATGTACAGACACTGAGCATGGAAGAGATTTCTGACTCT 3856
QY 3779 CCCTGCTCACTCACTGTTTCTGTATGAGAGAAAGAGAGTGTGCGACCCCAAAATTC 3838
DB 3857 CCCTGCTCACTCACTGTTTCTGTATGAGAGAAAGAGAGTGTGCGACCCCAAAATTC 3916
QY 3839 ATTATGACAACAAGAGGAATCAGTCAATTCTCCAGAACAGTAAGGGAAGAGACCGGC 3898
DB 3917 ATTATGACAACAAGAGGAATCAGTCAATTCTCCAGAACAGTAAGGGAAGAGACCGGC 3976
QY 3899 CAGTAGTGTAAAAATTTGAAGATATCCATTGGAGGAACAGAAAGTAAAGTATCC 3958
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QY 3959 CAGATGACGCCAGACAGACAGTGGATGCTCTTGCAATCAGAGAGCTGAAAATCTTGG 4018
DB 4037 CAGATGACGCCAGACAGACAGTGGATGCTCTTGCAATCAGAGAGCTGAAAATCTTGG 4096
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DB 4097 AAGACAGGAACAATTTATCTCACTTTTGTGGAATGATGCCCAAGTAAACAGAGAGT 4156
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DB 4217 ACACAGACACCACTGTTATCTCAGCGACAGAGGAGAGCTTTTAAAGATGTGATGCTG 4276
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DB 4277 CAGTTCAAGCTGACTCAGGAGACACAGTGCAGACTCACTCTGTTTAAATGGAATGTGCT 4336
QY 4258 CTGTCCCGGCTCCGCCCAACTCTGGAATCAAGAGAGAGTGTGCTTATGATTTTCA 4317

DB 4337 CTGTCCCGGCTCCGCCCAACTCTGGAATCAAGAGAGAGTGTGCTTATGATTTTCA 4396
QY 4318 AGTGTGTCTTTTCCACCAACCCGGAAGTACCACTTTGATTTTCAATTTTGAAGAGG 4377
DB 4397 AGTGTGTCTTTTCCACCAACCCGGAAGTACCACTTTGATTTTCAATTTTGAAGAGG 4456
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DB 4457 ACCTCAGACTGCAAGAGCTTCTCAGGGGATTTCCAGAGAGATGCCATGACCCA 4516
QY 4438 GAATGTGTGACTCTACTCTCTTTTCAATTCATTTTAAAGTCTATATATATGCTTGC 4497
DB 4517 GAATGTGTGACTCTACTCTCTTTTCAATTCATTTTAAAGTCTATATATATGCTTGC 4576
QY 4498 TGTGCTCTCACTACAGTTAAAGCAAAAGACTTTTAAACAGTGGACTGTCTTCCAG 4557
DB 4577 TGTGCTCTCACTACAGTTAAAGCAAAAGACTTTTAAACAGTGGACTGTCTTCCAG 4636
QY 4558 AAGTGCAACGAGCACTCTGTGAAACAGGATGCAATGGGCAATGCTTGTGTGAGGA 4617
DB 4637 AAGTGCAACGAGCACTCTGTGAAACAGGATGCAATGGGCAATGCTTGTGTGAGGA 4696
QY 4618 TGGGTGAGATGTCCAGGGCCGAGTCTGTCTACCTTGAAGGCTTTGTGAGAGATGC-GGC 4676
DB 4697 TGGGTGAGATGTCCAGGGCCGAGTCTGTCTACCTTGAAGGCTTTGTGAGAGATGCAGGC 4756
QY 4677 TATGAGCCAGTGTAAATGTGAGATGTGGAATGGAAGAGAGAGGCAAGTGCCTG 4736
DB 4757 TATGAGCCAGTGTAAATGTGAGATGTGGAATGGAAGAGAGAGGCAAGTGCCTG 4816
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DB 4817 GAGAGCGGTGAGAGCTGCAAGTGTGATGTGCTGCTGAGTGAAGTGGCTTGTGAGCC 4876
QY 4797 TGTGAGAAACGCAAAAGCGCGCCGAGGTTTGTGAAAGTTCGCTCTTCA 4856
DB 4877 TGTGAGAAACGCAAAAGCGCGCCGAGGTTTGTGAAAGTTCGCTCTTCA 4936
QY 4857 CAGTGGGTTCACAGCGAGTTCCCTGTGCGCTTCTACTATGAGAGTTCCTTCCG 4916
DB 4937 CAGTGGGTTCACAGCGAGTTCCCTGTGCGCTTCTACTATGAGAGTTCCTTCCG 4996
QY 4917 GACTCTTAAAGTGTCTCTGAGCTGAGCCGAGGAAGATGAGAGTGTGCTTCTCT 4976
DB 4997 GACTCTTAAAGTGTCTCTGAGCTGAGCCGAGGAAGATGAGAGTGTGCTTCTCT 5056
QY 4977 CATCTCTAGGCTGTGCTTAAATTCAGAACACCAAAAGAGAGAACTGTGCGAGAGCTC 5036
DB 5057 CATCTCTAGGCTGTGCTTAAATTCAGAACACCAAAAGAGAGAACTGTGCGAGAGCTC 5116
QY 5037 CTGACGGGCGGAGAAATTTGAGAACAGAACAGAAATCTCAGGTTTCTGCTGGGTGAG 5096
DB 5117 CTGACGGGCGGAGAAATTTGAGAACAGAACAGAAATCTCAGGTTTCTGCTGGGTGAG 5176
QY 5097 ACCACGTTGGGCGCTGTGAGAGGTCTGAGAGGTTCTGTCAAGTGGCGGTAAGGCTC 5156
DB 5177 ACCACGTTGGGCGCTGTGAGAGGTCTGAGAGGTTCTGTCAAGTGGCGGTAAGGCTC 5236
QY 5157 AGGCTGTGTTCTTCTCTATCTCACTCTGTGAGGCGCCCAAGTCTCTAGTATTTAG 5216
DB 5237 AGGCTGTGTTCTTCTCTATCTCACTCTGTGAGGCGCCCAAGTCTCTAGTATTTAG 5296
QY 5217 CTTTGTGCTTCTGATGAGCAAAATTTATTTGTTGTTGCTCTCCAGATTAATCA 5276
DB 5297 CTTTGTGCTTCTGATGAGCAAAATTTATTTGTTGTTGCTCTCCAGATTAATCA 5356
QY 5277 CTAGCCAGATTTGAAATTAATCTTTTACCGAGGTTATGATTAATCTACTATCTT 5336
DB 5357 CTAGCCAGATTTGAAATTAATCTTTTACCGAGGTTATGATTAATCTACTATCTT 5416
QY 5337 AGAATTTTAACTATTAATATGCTACTGCTTCTGCTGCTTATGTT 5390
|||||

Db 5417 AGAATTAACTAATACTATGCTACTGCTTTCTGCTGTGCTTATGTT 5470

RESULT 4
US-09-766-678-1
; Sequence 1, Application US/09766678
; Patent No. 6872699
; GENERAL INFORMATION:
; APPLICANT: Villrich, Axel
; Risaau, Werner
; Millauer, Birgit
; Gazic, Ariv
; Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/766,678
; FILING DATE: 25-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/193,829
; FILING DATE: 09-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEK: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5470 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 286..4386
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-766-678-1

Query Match 99.2%; Score 5346; DB 3; Length 5470;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

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RESULT 5
US-07-813-593-3
Sequence 3, Application US/07813593
Patent No. 5185438
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMANOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESS: IMCLONE SYSTEMS INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:

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/ MEDIUM TYPE: floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/813,593
/ FILING DATE: 19920415
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/793,065
/ FILING DATE: 15-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/728,913
/ FILING DATE: 28-JUN-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/679,666
/ FILING DATE: 02-APR-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Felt, Irving N.
/ REGISTRATION NUMBER: 28,601
/ REFERENCE/DOCKET NUMBER: LEM-3-PPP
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 212-645-1405
/ TELEFAX: 212-645-2054
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 5406 base pairs
/ TYPE: NUCLEIC ACID
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
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Query Match      99.0%; Score 5336.8; DB 2; Length 5406;
Beet Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;
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RESULT 6
US-07-977-451-5
Sequence 5, Application US/07977451
Patent No. 5270458
GENERAL INFORMATION:
APPLICANT: Lemischke, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/977,451
FILING DATE: 19921119
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US UNASSIGNED
FILING DATE: 12-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEW-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
US-07-977-451-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0; Mismatches 12; Indels 3; Gaps 3;
Matches 5377; Conservative 0;

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2640 GGATGAGGCTGTAAGCTTGCCTTATGATGCTGAGAGAGGGAATCCGAGGAGACG 2699
2640 GGATGAGGCTGTAAGCTTGCCTTATGATGCTGAGAGAGGGAATCCGAGGAGACG 2699
2700 GCTGAACCTAGAAAACTCTTGGCGGAGGCTCTGAGGCAAGTATGAGAGAGAGC 2759
2700 GCTGAACCTAGAAAACTCTTGGCGGAGGCTCTGAGGCAAGTATGAGAGAGAGC 2759
2760 TTTTGAATTTGACAAAGACAGGACTTGCAGAAACAGTACCGTCAAGATTTGAAAGAG 2819
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2880 TCACCATCTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2939
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2940 GGTGATTTGATGATTTGCAAGTTTGAAGATTTGCAAGTTTGAAGATTTGCAAGTTT 2999
2940 GGTGATTTGATGATTTGCAAGTTTGAAGATTTGCAAGTTTGAAGATTTGCAAGTTT 2999
3000 TGAATTTGCTCTTAAGAGAAAGGAGAGGCTCTGAGGCAAGGCTCTGAGGCTCTGAG 3059
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3060 GAGGCTCTCGGTGATCTGAAAGAGGCTTGGACAGATCAACAGAGAGGCTCTGC 3119
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3120 CAGCTCAGGCTTTGTTGAGAGAAATGCTGATGATGATGATGATGATGATGATGATG 3179
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3180 AGAAGTGAAGAGAGCTTCTGAGAGGATGATGATGATGATGATGATGATGATGATG 3239
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3240 TAAAGGATGAGGCTTCTGAGATCAAGAGATGATCAACAGAGAGCTTGCAGAGAA 3299
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3300 CATTTCTTATGAGAGAAATGCTGATGATGATGATGATGATGATGATGATGATGATG 3359
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Db	3600	AGAAATGTAACGAGACCATGCTGGAATGCGGATATAGGACCCCAACAGAGACCTCGTT	3655
Oy	3660	TTCAGAGTTGGTGGAGCAATTTGGGAAACCTCTCGAAGCAATGCGCAGCGAGATGGCAA	3715
Db	3660	TTCAAGATGGTGGAGCAATTTGGGAAACCTCTCGAAGCAATGCGCAGCGAGATGGCAA	3715
Oy	3720	AGACTATATTGTTCTTCCAAATGTCAAGACACTGAGCAATGGAAAGAGATTCTGACCTGC	3775
Db	3720	AGACTATATTGTTCTTCCAAATGTCAAGACACTGAGCAATGGAAAGAGATTCTGACCTGC	3775
Oy	3780	CCTGCTTACTTCACTCTGTTTCTCTGATGAGGAGAGAGAGTGTGCAACCCCAATTCCA	3835
Db	3780	CCTGCTTACTTCACTCTGTTTCTCTGATGAGGAGAGAGAGTGTGCAACCCCAATTCCA	3835
Oy	3840	TTATGACAAACAGAGAGAAATAGTCAATTATCTCAAGAACGTAAAGCAAGAGCGCGGCC	3895
Db	3840	TTATGACAAACAGAGAGAAATAGTCAATTATCTCAAGAACGTAAAGCAAGAGCGCGGCC	3895
Oy	3900	AGTGAAGTGTAAAAACATTTGAAAGATATCCATTTGAGAGAACAGAAAGTAAAGTGATGCC	3955
Db	3900	AGTGAAGTGTAAAAACATTTGAAAGATATCCATTTGAGAGAACAGAAAGTAAAGTGATGCC	3955
Oy	3960	AGATGACAGCCAGACAGACAGTGGGATGTCCTTGCAATCAGAAAGCTGAAAATCTCTGGA	4015
Db	3960	AGATGACAGCCAGACAGACAGTGGGATGTCCTTGCAATCAGAAAGCTGAAAATCTCTGGA	4015
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Db	4020	AGACAGAGAAACAAATTATCTCCATCTTTTGGTGAATGATGCCACGTAAAGACGAGGAGTCC	4075
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Db	4080	TGTGGCTCTGGAGAGGCTCCAAACAGACCAAGTGGCTAACAGTCTGGGATCATCTCAGATGA	4135
Oy	4140	CACAGACACACCCGATGATCTCCAGGAGAGAGGACAGACCTTTTAAAGATGGTGAAGCTGC	4195
Db	4140	CACAGACACACCCGATGATCTCCAGGAGAGAGGACAGACCTTTTAAAGATGGTGAAGCTGC	4195
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Oy	4319	GTTGTTGTTCTTTCACCAACCCGGAATGACCACTTATATTTTCATTTTGGAGGAGGGA	4378
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Db	4499	AATGTTGTAATCTTCTCTCTTTTCATTTAAAGTCCCTAATATATGAGCCCTGCT	4558
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Db	4559	AGTGGCAACGGCACCTCTGTGTAATCTGATGGAATGGGCAATGCTTTGTGTGTTGAAGAT	4618
Oy	4619	GGGTGAATGTTCCAGGGCCGAGTCTGTCTACTCTTGGAGAGCTTTGTGAGGATGCGAGTAA	4678
Db	4619	GGGTGAATGTTCCAGGGCCGAGTCTGTCTACTCTTGGAGAGCTTTGTGAGGATGCGAGTAA	4678
Oy	4679	GAGTGAATGTTCCAGGGCCGAGTCTGTCTACTCTTGGAGAGCTTTGTGAGGATGCGAGTAA	4738
Db	4679	GAGTGAATGTTCCAGGGCCGAGTCTGTCTACTCTTGGAGAGCTTTGTGAGGATGCGAGTAA	4738
Oy	4739	TTAGGCAAGTGTAAAGTGGGATGTGGAATGGGAGGAAAGGCGCAACCTGCTCCGGA	4798
Db	4739	TTAGGCAAGTGTAAAGTGGGATGTGGAATGGGAGGAAAGGCGCAACCTGCTCCGGA	4798

QY	4739	GAGCGGTTGAGAGCTGCGAGATGCAATTGTGCTGCTGTGTGTGAGAGTGGGCTTGTGGCCTG	4739
Db	4740	GAGCGGTTGAGAGCTGCGAGATGCAATTGTGCTGCTGTGTGTGAGAGTGGGCTTGTGGCCTG	4739
QY	4739	TCAGGAACCGAAGAGCGGCGGAGAGGTTGGTTTTGGAGAGTTTGGTGCTCTTTACACA	4858
Db	4800	TCAGGAACCGAAGAGCGGCGGAGAGGTTGGTTTTGGAGAGTTTGGTGCTCTTTACACA	4858
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QY	5219	TTGTGGCTTCTGTGATGCGAGAAATCTTAATGTGGTTGCTCTTCAAGTATTAAGT	5278
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RESULT 7			
US-07-946-507-3			
; Sequence 3, Application US/07946507			
; Patent No. 5283354			
; GENERAL INFORMATION:			
; APPLICANT: Lemischka, Ihor R.			
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL			
; NUMBER OF SEQUENCES: 4			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: IMCLONE SYSTEMS INCORPORATED			
; STREET: 180 VARICK STREET			
; CITY: NEW YORK			
; STATE: NEW YORK			
; COUNTRY: U.S.A.			
; ZIP: 10014			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: Patentin Release #1.0, Version #1.25			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/07/946,507			
; FILING DATE: 19920917			
; CLASSIFICATION: 536			
; PRIOR APPLICATION DATA:			
; APPLICATION NUMBER: US/07/813,593			

FILED DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/793,065
FILED DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/728,913
FILED DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/679,666
FILED DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: FELT, IRVING N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 208..4308
US-07-946-507-3

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;

Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

QY 1 CTGTCTCCCGCAGCGGATTAACCTTGCTGACCCGATTCGCGGACACCGCTGCAAGCCGCG 60
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DB 61 GCTGAGCCAGGCGCGCGTGCCTCCGCGCTCTCCCGGCTCTTGCGCTGCGGGGCGCG-ATA 119
QY 120 CCGCCTCTGTGACTCTTTGGGGGCGCAGGAGCGAAGAGAGTCTGTGCGCTGAGAACTG 179
DB 120 CCGCCTCTGTGACTCTTTGGGGGCGCAGGAGCGAAGAGAGTCTGTGCGCTGAGAACTG 179
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QY 240 GTGCTCTGTGCGTGAAGACCCGAGCCGCTCTGTGGGTTGACTGGCGATTTTCTCCATCC 299
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RESULT 8
US-08-252-517-5
; Sequence 5, Application US/08252517
; Patent No. 5548065
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Ihor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESSES:
; ADDRESSER: Imclone Systems Incorporated
; STREET: 180 Varick Street
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/252,517
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/977,451
; FILING DATE: 19-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/906,397
; FILING DATE: 26-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US92/05401
; FILING DATE: 26-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: TW 81102961
; FILING DATE: 15-APR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US92/02750
; FILING DATE: 02-APR-1992
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEetical: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
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LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
US-08-252-517-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;

Best Local Similarity 99.7%; Pred. No. 0; Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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Db 4200 AGTTACACCTGATCTCAGGAGACACACCTGACCTCTGTTTAAATGGAAGTGTCC 4258
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Db 4239 TGTCCCGCTCCGCCCCCACTCTGGAATACAGAGAGGTGCTGTAGATTTTCAA 4318
Oy 4260 TGTCCCGCTCCGCCCCCACTCTGGAATACAGAGAGGTGCTGTAGATTTTCAA 4319
Db 4260 TGTCCCGCTCCGCCCCCACTCTGGAATACAGAGAGGTGCTGTAGATTTTCAA 4319
Oy 4319 GTGTGTTCTTTCCACACCGGAGATGACCATTTGATTTTCTTTTGGAGAGGGA 4378
Db 4320 GTGTGTTCTTTCCACACCGGAGATGACCATTTGATTTTCTTTTGGAGAGGGA 4379
Oy 4379 CCTCAGACTGCAAGAGCTTGTCTCAGGAGCATTTCCAGAGATGACCAATGACCAAG 4438
Db 4380 CCTCAGACTGCAAGAGCTTGTCTCAGGAGCATTTCCAGAGATGACCAATGACCAAG 4439
Oy 4439 AATGTGTGACTCTACTCTTTTTCATTATTTAAAGTCTATATATGTCCTGCT 4498
Db 4440 AATGTGTGACTCTACTCTTTTTCATTATTTAAAGTCTATATATGTCCTGCT 4499
Oy 4499 GTGTGTTCACTACAGGTTAAAGCAAAAGATTTCACACGAGGACTGTCTCTCCAGA 4558
Db 4500 GTGTGTTCACTACAGGTTAAAGCAAAAGATTTCACACGAGGACTGTCTCTCCAGA 4559
Oy 4559 AGTGCAACGCGACCTCTGTGAAACTGATCGAATGCGCAATGCTTGTGTGAGGAT 4618
Db 4560 AGTGCAACGCGACCTCTGTGAAACTGATCGAATGCGCAATGCTTGTGTGAGGAT 4619
Oy 4619 GAGTGAGATGTCCAGGCGCCGAGTGTCTTACCTTTGAGAGCTTTGTGAGAGTGCCTA 4678
Db 4620 GAGTGAGATGTCCAGGCGCCGAGTGTCTTACCTTTGAGAGCTTTGTGAGAGTGCCTA 4679
Oy 4679 TGAAGCAAGTGTAAAGTGGAGATGAGACTGGAGAGAAAGGCGCAAGCCGCGCGA 4738
Db 4680 TGAAGCAAGTGTAAAGTGGAGATGAGACTGGAGAGAAAGGCGCAAGCCGCGCGA 4739
Oy 4739 GAGCGGTTGAGACCTGCAAGATGATTTGCTGCTCTGATGAGAGTGGGCTTGTGCGCTG 4798
Db 4740 GAGCGGTTGAGACCTGCAAGATGATTTGCTGCTCTGATGAGAGTGGGCTTGTGCGCTG 4799
Oy 4799 TCAGAAACGCAAGGCGCGCGAGGTTGTGTTTGAAGGTTGCTGCTCTTCA 4858

Db 4800 TCAGAAACGCAAGGCGCGCGAGGTTGTGTTTGAAGGTTTGTGCTCTTCA 4859
Oy 4859 GTGCGGTTACAGAGGAGTCCCTGTGCGGTTTCTTCTATATAGAGTTCCTTCCGA 4918
Db 4860 GTGCGGTTACAGAGGAGTCCCTGTGCGGTTTCTTCTATATAGAGTTCCTTCCGA 4919
Oy 4919 CTCTTACGTTCTCTGCGCTGCGCCCAAGAAATGATGACGCTTCTCTTCA 4978
Db 4920 CTCTTACGTTCTCTGCGCTGCGCCCAAGAAATGATGACGCTTCTCTTCA 4979
Oy 4979 TCTCTACGCTGTGCTTAAATTCAGAACACCAAAAGAGGAGTGGCAGAGCTCT 5038
Db 4980 TCTCTACGCTGTGCTTAAATTCAGAACACCAAAAGAGGAGTGGCAGAGCTCT 5039
Oy 5039 GACGCGCGCGAAGATTTGTAGAACAGAACAGAACTCAGGTTTCTGCTGGTGAAGC 5098
Db 5040 GACGCGCGCGAAGATTTGTAGAACAGAACAGAACTCAGGTTTCTGCTGGTGAAGC 5099
Oy 5099 CCAGTGGCGCTGTGAGGAGTCTGAGAGGTTCTGTCAAGTGGCGGTTAAAGCTCAG 5158
Db 5100 CCAAGTGGCGCTGTGAGGAGTCTGAGAGGTTCTGTCAAGTGGCGGTTAAAGCTCAG 5159
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Db 5160 GCTGTGTTCTTCTCTATCTCCACCTCTGACAGGCGCCCAAGTCTCAGTATTTAGCT 5219
Oy 5219 TTTGCTGCTCTGATGAGCAAAATCTAATTTGTTGTTGCTCTCAGATATCACT 5278
Db 5220 TTTGCTGCTCTGATGAGCAAAATCTAATTTGTTGTTGCTCTCAGATATCACT 5279
Oy 5279 AGCCAGATTTGCAATTTACTTTTACCGGAGTTATGATTAATCTATCTTTAG 5338
Db 5280 AGCCAGATTTGCAATTTACTTTTACCGGAGTTATGATTAATCTATCTTTAG 5339
Oy 5339 AATTTTAACTTAAATCTAATGCTACTGTTTCTGCTGTGCTATGTT 5390
Db 5340 AATTTTAACTTAAATCTAATGCTACTGTTTCTGCTGTGCTATGTT 5391

RESULT 9
US-07-906-397A-5
; Sequence 5, Application US/07906397A
; Patent No. 5621090
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Ihor R.
; TITLE OF INVENTION: TOTIPOTENT HEMANOPOIETIC STEM CELL
; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
; STREET: 180 VARIK STREET
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/906,397A
; FILING DATE: 19920626
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/813,593
; FILING DATE: 24-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/793,065
; FILING DATE: 15-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/728,913
; FILING DATE: 28-JUN-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPEPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ. ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
NAME/KEY: mat_peptide
LOCATION: 208..4308
US-07-906-397A-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;

Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

OY 1 CTGTGTCCTGCGCGCGGATACCTGCTGACCCGATTCGCGCGGACACCGCTGACGCGCG 60
DB 1 CTGTGTCCTGCGCGCGGATACCTGCTGACCCGATTCGCGCGGACACCGCTGACGCGCG 60
OY 61 GCTGAGCCAGGCGCGCGGTGCGCGCTCTCCCGGCTCTTGCGCTGCGCGGCGCC-ATA 119
DB 61 GCTGAGCCAGGCGCGCGGTG-CCGCGCTCTCCCGGCTCTTGCGCGGCGGCGGANA 119
OY 120 CCGCTCTGTGACTCTTTTGGCGGCGACGAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 179
DB 120 CCGCTCTGTGACTCTTTTGGCGGCGACGAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 179
OY 180 GGCCTGTGTCGCGGCGCGAGGTGACGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 239
DB 180 GGCCTGTGTCGCGGCGCGAGGTGACGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 239
OY 240 GTGGTTCTGCGTGAAGACCGGACCGCTCTGTGGGTTTGAAGAGAGAGAGAGAGAGAG 299
DB 240 GTGGTTCTGCGTGAAGACCGGACCGCTCTGTGGGTTTGAAGAGAGAGAGAGAGAGAG 299
OY 300 CCCCAGCTCAGACACAGAAAGACATCTGACAAATTTGGCAATATACACCTTCAGAT 359
DB 300 CCCCAGCTCAGACACAGAAAGACATCTGACAAATTTGGCAATATACACCTTCAGAT 359
OY 360 TACTTGAGGGGACAGCGGAGCTGAGCTGTGGCCCAATGCTGACGCGGATTTGGA 419
DB 360 TACTTGAGGGGACAGCGGAGCTGAGCTGTGGCCCAATGCTGACGCGGATTTGGA 419
OY 420 GGAAGAGGATTTGATGACTGAATGCGGCGGTGTGAGAGATCTTCTGAAAGACCTGAC 479
DB 420 GGAAGAGGATTTGATGACTGAATGCGGCGGTGTGAGAGATCTTCTGAAAGACCTGAC 479
OY 480 CATTCCCAAGGAGGTTGGAATGATATCTGAGAGCTTACAAATGCTGTACCGGAGAGTGA 539
DB 480 CATTCCCAAGGAGGTTGGAATGATATCTGAGAGCTTACAAATGCTGTACCGGAGAGTGA 539
OY 540 CATAGCTTCACTGTTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 599
DB 540 CATAGCTTCACTGTTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 599
OY 600 CAGTGACGAGATGCGATGCTGTATCATCACCGAGAAACAAGAACTGTGTGATCCC 659

DB 600 CAGTGACGAGATGCGATGCTGTATCATCACCGAGAAACAAGAACTGTGTGATCCC 659
OY 660 CTGCGGAGGAGTGAATTTCAAACCTCAATGTGTCTCTTTGCGGTAGGTATCCGAAAGAG 719
DB 660 CTGCGGAGGAGTGAATTTCAAACCTCAATGTGTCTCTTTGCGGTAGGTATCCGAAAGAG 719
OY 720 ATTTGTTCCGAGTGGAGAAAGAAATTTCCGGGACGCGAGATAGGCTTACTCTCCCGAG 779
DB 720 ATTTGTTCCGAGTGGAGAAAGAAATTTCCGGGACGCGAGATAGGCTTACTCTCCCGAG 779
OY 780 TTACATGATCAGCTATGCGGAGATGCTCTTCTGTGAGGAGCAAGATCAATGATGAAACCTA 839
DB 780 TTACATGATCAGCTATGCGGAGATGCTCTTCTGTGAGGAGCAAGATCAATGATGAAACCTA 839
OY 840 TCAAGTCTATCATATGATATGATGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG 899
DB 840 TCAAGTCTATCATATGATATGATGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG 899
OY 900 CCCCCGATGAAATTTGAGCTATCTGCGGAGAGAAATTTGCTTAAATTTGACGCGAG 959
DB 900 CCCCCGATGAAATTTGAGCTATCTGCGGAGAGAAATTTGCTTAAATTTGACGCGAG 959
OY 960 AACAGAGCTCAATGTGGGCTGATTTTCACTGAGACTCTCCACCTTCAAGTCTCATCA 1019
DB 960 AACAGAGCTCAATGTGGGCTGATTTTCACTGAGACTCTCCACCTTCAAGTCTCATCA 1019
OY 1020 TAAAGAGATTTGAAACCGGAGATGAAACCTTTCTGGGACTGTGGCGAAGATTTTTT 1079
DB 1020 TAAAGAGATTTGAAACCGGAGATGAAACCTTTCTGGGACTGTGGCGAAGATTTTTT 1079
OY 1080 GAGCACTTTGACAAATGAAAGGTGACCAAGGTGACCAAGGGAATCACTGTGTGAC 1139
DB 1080 GAGCACTTTGACAAATGAAAGGTGACCAAGGTGACCAAGGGAATCACTGTGTGAC 1139
OY 1140 GTCCAGTGGAGCGATGATCAAGAGAAATGAAACATTTGTCCAGTTTCAACAACCTTT 1199
DB 1140 GTCCAGTGGAGCGATGATCAAGAGAAATGAAACATTTGTCCAGTTTCAACAACCTTT 1199
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DB 1200 TATTGCTTTCCGTAAGTGGATGAAATCTTTGTGGAAGCACAGTGGGAGTCAAGTCCG 1259
OY 1260 AATCCCTGGAAGTATCTCAAGTTACCAAGCTCTGATATCAATGATGACAGAAATGGAAG 1319
DB 1260 AATCCCTGGAAGTATCTCAAGTTACCAAGCTCTGATATCAATGATGACAGAAATGGAAG 1319
OY 1320 GCCCATGAGTCCAACTACAAATGATTTGGCGATGAACTCACCATCATGGAAGTAC 1379
DB 1320 GCCCATGAGTCCAACTACAAATGATTTGGCGATGAACTCACCATCATGGAAGTAC 1379
OY 1380 TGAAGAAGATGAGAGAACTACACGCTATCTTCAACACCCCATTTCAATGAGAGAAACA 1439
DB 1380 TGAAGAAGATGAGAGAACTACACGCTATCTTCAACACCCCATTTCAATGAGAGAAACA 1439
OY 1440 GAGCCACATGATCTCTGTTGTGTAAGTCCACCCCAATGCGTGAAGAAAGCTTGAT 1499
DB 1440 GAGCCACATGATCTCTGTTGTGTAAGTCCACCCCAATGCGTGAAGAAAGCTTGAT 1499
OY 1500 CTGCGCTATGATTTCTTCAAGTATGAGACATGAGACATTTGACATGACAGTACAGC 1559
DB 1500 CTGCGCTATGATTTCTTCAAGTATGAGACATGAGACATTTGACATGACAGTACAGC 1559
OY 1560 CAACCTTCCCTGCAACACATCTCAGTGTACTGCGAGCTTGAAGAGAGCTGCTCTTACAG 1619
DB 1560 CAACCTTCCCTGCAACACATCTCAGTGTACTGCGAGCTTGAAGAGAGCTGCTCTTACAG 1619
OY 1620 ACCGGGCAACAAGCCCGTATGCTTGAAGAAATGAGAGACGAGGAGATTTCCAGAG 1679
DB 1620 ACCGGGCAACAAGCCCGTATGCTTGAAGAAATGAGAGACGAGGAGATTTCCAGAG 1679
OY 1680 GGAAGAAACAAGATGCAAGTCAACAAAACCAATATGCTGATTTGAAGAGAAACAAC 1739

Db 1680 GGGAAACAAAGATCGAAGTCACCAAAAAACCAATATGCGCTGATTTGAAGGAAAAACAAAC 1739
Qy 1740 TGTAAATAGCGTGTGATCATCAAGCTGCCAAGTGTACAGGTTGTACAAATGTAAGCCAT 1799
Db 1740 TGTAAATAGCGTGTGATCATCAAGCTGCCAAGTGTGTACAGGTTGTACAAATGTAAGCCAT 1799
Qy 1800 CAACAAACCGGAGACGAGAGAGAGAGGGTCACTCTCTTCATGTGATCAGGGGTCTTGAAT 1859
Db 1800 CAACAAACCGGAGACGAGAGAGAGAGGGTCACTCTCTTCATGTGATCAGGGGTCTTGAAT 1859
Qy 1860 TACTGTGAACTCTGTGCCCAAGCCCACTGAGAGAGAGTGTGTCCCTGTGTGTGACCTGC 1919
Db 1860 TACTGTGAACTCTGTGCCCAAGCCCACTGAGAGAGAGTGTGTCCCTGTGTGTGACCTGC 1919
Qy 1920 AGACAGAAATAGTTTGTGAAGAACTTCAAGCTGTGTAACAAGCTTGAGCTCAGGCAACATCGGT 1979
Db 1920 AGACAGAAATAGTTTGTGAAGAACTTCAAGCTGTGTAACAAGCTTGAGCTCAGGCAACATCGGT 1979
Qy 1980 CCAATGGGGCAATCACTCAACAGTTTGCAGAGAACTTGAATGCTCTTTGGAACTGAA 2039
Db 1980 CCAATGGGGCAATCACTCAACAGTTTGCAGAGAACTTGAATGCTCTTTGGAACTGAA 2039
Qy 2040 TGGCAACCAATGTTTGTACAGACAAATGACATCTTGAATGTGGATTTGCAATGCTC 2099
Db 2040 TGGCAACCAATGTTTGTACAGACAAATGACATCTTGAATGTGGATTTGCAATGCTC 2099
Qy 2100 TCTGACAGACCAAGGCGACTATGTTGTCTGTCTCAAGATAAAGAACCAAGAAAGACA 2159
Db 2100 TCTGACAGACCAAGGCGACTATGTTGTCTGTCTCAAGATAAAGAACCAAGAAAGACA 2159
Qy 2160 TTGCTGTGTCAACAGCTCATATCTTGAAGCGCATGAGCAACCATGATCACCGAAATCT 2219
Db 2160 TTGCTGTGTCAACAGCTCATATCTTGAAGCGCATGAGCAACCATGATCACCGAAATCT 2219
Qy 2220 GGAAGATAGACAAACATTTGGGAGACCAATGAATGACTTGGCCAGACCTCGGAA 2279
Db 2220 GGAAGATAGACAAACATTTGGGAGACCAATGAATGACTTGGCCAGACCTCGGAA 2279
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Db 2280 TCTCAACCCACACATTTACATGGTTCAAGACCAACAGACCTGTGTAAGAAATTCAGGCA 2339
Qy 2340 TGTACTGAGATGAGAAACCGGAACTTGAATCCGACAGGTGAGAAAGAGAGATGAGG 2399
Db 2340 TGTACTGAGATGAGAAACCGGAACTTGAATCCGACAGGTGAGAAAGAGAGATGAGG 2399
Qy 2400 CCTCAACCTGCGACAGGCTGTGAAATGCTGCTGTGCAAGAGGAGGAGGCTTTGAT 2459
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Db 2460 AATAGAAAGTCCCGAGAAAGAACCAATGTGAAATCAATTAATCTCTGTGCGACATGCAGT 2519
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Db 2520 GATTGCCATGTTCTTCTGCTCTCTTGTGTATGTCTTACGAGACCGTTAAACCGGCGCA 2579
Qy 2580 TGAAGGGGAACTGAAAGACAGGCTACTGTCTATTTGTATGATCCAGATGAATGCTCTT 2639
Db 2580 TGAAGGGGAACTGAAAGACAGGCTACTGTCTATTTGTATGATCCAGATGAATGCTCTT 2639
Qy 2640 GGATAGGCGCTGTGAACGCTTGCTTATGATGCGCAAGTGGGAATTTCCCGAGGAGCG 2699
Db 2640 GGATAGGCGCTGTGAACGCTTGCTTATGATGCGCAAGTGGGAATTTCCCGAGGAGCG 2699
Qy 2700 GCTGAAACTAGGAAACCTCTTGGCGCGGTGCTTGGCGCAAGTATGAGGCGAGAGC 2759
Db 2700 GCTGAAACTAGGAAACCTCTTGGCGCGGTGCTTGGCGCAAGTATGAGGCGAGAGC 2759
Qy 2760 TTTTGAATTTGACAGACAGGCACTTGAACAAACATAGCCGTCAGATGTTGAAGAGAG 2819
Db 2760 TTTTGAATTTGACAGACAGGCACTTGAACAAACATAGCCGTCAGATGTTGAAGAGAG 2819

Qy 2820 AGCAACACAGCGAGCATCGAGCCCTCATGTCTGAATCTCAAGATTCCTCATTCACATTTGG 2879
Db 2820 AGCAACACAGCGAGCATCGAGCCCTCATGTCTGAATCTCAAGATTCCTCATTCACATTTGG 2879
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Db 3060 GGAAGCTCTCGTGGATCTGAAGAAACGCTTGGACAGATCACAGCAGCCAGAGCTCTGC 3119
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Qy 3360 TTAATAAAGCCCGGATTAATGTAGAGAAAGAGATGCCGACTCCCTTTGAATGATGGC 3419
Db 3360 TTAATAAAGCCCGGATTAATGTAGAGAAAGAGATGCCGACTCCCTTTGAATGATGGC 3419
Qy 3420 CCGGAAACCTTTTGAACAGATTAACAAATTCAGAGCATGTGTGCTTTTCGGTGT 3479
Db 3420 CCGGAAACCTTTTGAACAGATTAACAAATTCAGAGCATGTGTGCTTTTCGGTGT 3479
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Db 3480 GTTGTCTGTGGAAATTTTTCCTTAGGTGCTCCCAATACCTGTGGGTCAAGATTGATGA 3539
Qy 3540 AGAATTTTGTAGAGATTTGAAGAGAACTAGATGCGGGCTCTGACTTACATACCC 3599
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Db 3600 AGAAATGTACCAAGCATGTCTGACCTGTGGATGAGAGACCCCAACAGAGAACCTCTGT 3659
Qy 3660 TTAAGATTTGTGAGAGATTTTGGGAAACCTCTCAAGCAAAATGCGAGAGATGAGCA 3719
Db 3660 TTAAGATTTGTGAGAGATTTTGGGAAACCTCTCTCAAGCAAAATGCGAGAGATGAGCA 3719
Qy 3720 AGACTATATTTGTTTCTTCAATGTGAGAGACATGAGCATGGAAGAGATTTCTGAATCTGC 3779
Db 3720 AGACTATATTTGTTTCTTCAATGTGAGAGACATGAGCATGGAAGAGATTTCTGAATCTGC 3779
Qy 3780 CTTGCTTACCTCACTCTGTTTCTGTATGAGAGAGAGAGATGTGCCAATTTTCA 3839
Db 3780 CTTGCTTACCTCACTCTGTTTCTGTATGAGAGAGAGAGATGTGCCAATTTTCA 3839
Qy 3840 TTAATGACAAACAGACAGAGAAATCAGTCAATTAATCTCAGAACAGTAAGCGAAAGAGCCGCC 3899
Db 3840 TTAATGACAAACAGACAGAGAAATCAGTCAATTAATCTCAGAACAGTAAGCGAAAGAGCCGCC 3899

OY	3900	AGTAGGTGTAAAAACATTTGAAAGATATCCCATTTGGAGAACCGAAGTAAAAAGTATCC	3959
Db	3900	AGTAGGTGTAAAAACATTTGAAAGATATCCCATTTGGAGAACCGAAGTAAAAAGTATCC	3959
OY	3960	AGATGACACCCAGACAGACAGTGGAGTGGTCTTTCATCAGNAGAGCTGAAAACCTTGGA	4019
Db	3960	AGATGACACCCAGACAGACAGTGGAGTGGTCTTTCATCAGNAGAGCTGAAAACCTTGGA	4019
OY	4020	AGACAGGAACCAATTATCTCCATCTTTTGTGTGAATGATGCCAGTAAAAAGAGGAGTCTC	4079
Db	4020	AGACAGGAACCAATTATCTCCATCTTTTGTGTGAATGATGCCAGTAAAAAGAGGAGTCTC	4079
OY	4080	TGTGGCTCTGGGAAGGCTCCAAACAGACAGTGGCTCAACAGTCTGGGTATCTACATGAGTGA	4139
Db	4080	TGTGGCTCTGGGAAGGCTCCAAACAGACAGTGGCTCAACAGTCTGGGTATCTACATGAGTGA	4139
OY	4140	CACAGACACCAACCTGTACTCCAGGAGCAGAGGACAGACTTTTAAAGATGTGTGATGTCTC	4199
Db	4140	CACAGACACCAACCTGTACTCCAGGAGCAGAGGACAGACTTTTAAAGATGTGTGATGTCTC	4199
OY	4200	AGTTACGCTGACTCAGGGACCAACCTGC-GCTACCTCTGTTTAAATGGAAGTGTCC	4258
Db	4200	AGTTACGCTGACTCAGGGACCAACCTGCAGCTCACTCTGTTTAAATGGAAGTGTCC	4259
OY	4259	TGTCCCGGCTCCGCCCCCACTCCCTGTGAATAACAGAGAGGTGTCTGTATGATTTTCAA	4319
Db	4260	TGTCCCGGCTCCGCCCCCACTCTGTGAATAACAGAGAGGTGTCTGTATGATTTTCAA	4319
OY	4319	GTGTGTGTCTTTTCCACCAACCGGAAGTACCACTTATTTTCAATTTTGTGAGAGAGGA	4378
Db	4320	GTGTGTGTCTTTTCCACCAACCGGAAGTACCACTTATTTTCAATTTTGTGAGAGAGGA	4379
OY	4379	CCTCAGACTGCAGAGAGCTTGTCTCAGGGCAATTTCCAGAGAGATGCCATGACCCAG	4438
Db	4380	CCTCAGACTGCAGAGAGCTTGTCTCAGGGCAATTTCCAGAGAGATGCCATGACCCAG	4439
OY	4439	AATGTGTGACTCTACTCTCTTTTTCATTTAAAGTCTATATATGTGCCCTGTCT	4498
Db	4440	AATGTGTGACTCTACTCTCTTTTTCATTTAAAGTCTATATATGTGCCCTGTCT	4499
OY	4499	GTGGTCTCACTACCAAGTTAAAGCAAAAACATTTTAAACAGTGGACCTGTCTCCAGA	4558
Db	4500	GTGGTCTCACTACCAAGTTAAAGCAAAAACATTTTAAACAGTGGACCTGTCTCCAGA	4559
OY	4559	AGTGGCAACGGCACCTCTGTGAAATGTGATCGAATGGCAATGCTTGTGTGTGAGGAT	4618
Db	4560	AGTGGCAACGGCACCTCTGTGAAATGTGATCGAATGGCAATGCTTGTGTGTGAGGAT	4619
OY	4619	GGGTGAGATGTCCAGGGCCGAGTCTGTCTACCTTGAAGGCTTTGTGAGAGATCGGCTA	4678
Db	4620	GGGTGAGATGTCCAGGGCCGAGTCTGTCTACCTTGAAGGCTTTGTGAGAGATCGGCTA	4679
OY	4679	TGAGCGAAGTATAAGTGTGGGAGTGTGACCTGGAGAGAAAGGACCAAGTCCCTGGGA	4738
Db	4680	TGAGCGAAGTATAAGTGTGGGAGTGTGACCTGGAGAGAAAGGACCAAGTCCCTGGGA	4739
OY	4739	GAGCGGTGTGAGCCTGAGATGACATTTGTGTGTGCTCTGTGTGAGAGTGGGCTTGTGACCTG	4798
Db	4740	GAGCGGTGTGAGCCTGAGATGACATTTGTGTGTGCTCTGTGTGAGAGTGGGCTTGTGACCTG	4799
OY	4799	TCAGGAAACGCAAAAGCGGCGCGGAGGTTTGTGTTTGAAGGTTTGCGTCTTTTACA	4858
Db	4800	TCAGGAAACGCAAAAGCGGCGCGGAGGTTTGTGTTTGAAGGTTTGCGTCTTTTACA	4859
OY	4859	GTGGGTTTACAGGGGAGTTCCTCTGTGGGTTTCTTACTCTTAATGAGAGTTCTTTCCGGA	4918
Db	4860	GTGGGTTTACAGGGGAGTTCCTCTGTGGGTTTCTTACTCTTAATGAGAGTTCTTTCCGGA	4919
OY	4919	CTCTTACCTGTCTCTGTGGCTGTGGCCCGAGAGAAATGATGACAGTTGTCTCTTTCCTCA	4978
Db	4920	CTCTTACCTGTCTCTGTGGCTGTGGCCCGAGAGAAATGATGACAGTTGTCTCTTTCCTCA	4979
OY	4979	TCTCTCAGGCTGTGCTTAAATTCAGAACCAACCAAAAGAGGAAGTGTGGCAGAGCTCTT	5038

Db	4980	TTCTTCAGGCTGTGCTTTAATTCAGAACACCAAGAGGAGACGTCG3CAGAGGCTTCT	5039
Qy	5039	GACGGGGCCGAGAATTGTGAGAA CAGAACAGAAATCAGGGTTTCTGCTGGTGAAC	5098
Db	5040	GACGGGGCCGAGAATTGTGAGAA CAGAACAGAAATCAGGGTTTCTGCTGGTGAAC	5099
Qy	5099	CCAGTGGCCGCTTGTGTGGCAGGTCGTGAAGGTTTCTGTCAATGGCGGTAAAGGCTCAG	5158
Db	5100	CCAGTGGCCGCTTGTGTGGCAGGTCGTGAAGGTTTCTGTCAATGGCGGTAAAGGCTCAG	5159
Qy	5159	GCTGTGTCTTCTCCATCTCACTCCGTCGAGGCCCCCAAGTCCATGATTTAGCT	5218
Db	5160	GCTGTGTCTTCTCCATCTCACTCCGTCGAGGCCCCCAAGTCCATGATTTAGCT	5219
Qy	5219	TTGTGTGCTTCCGTGATGCGAGAAAATCTTAATGGTTGGTTTGGCTTCACATATCACT	5278
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Qy	5339	AATTTAACTTAATAACTATGCTTACTGGTTTCTGCTGTGCTCTATGTT	5390
Db	5340	AATTTAACTTAATAACTATGCTTACTGGTTTCTGCTGTGCTCTATGTT	5391
RESULT 10			
US-08-601-891-5			
Sequence 5, Application US/08601891			
Patent No. 5747651			
GENERAL INFORMATION:			
APPLICANT: Lemischka, Ihor R.			
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL			
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS			
NUMBER OF SEQUENCES: 10			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Imclone Systems Incorporated			
STREET: 180 Varick Street			
CITY: New York			
STATE: New York			
COUNTRY: U.S.A.			
ZIP: 10014			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: Patentn Release #1.0, Version #1.25			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/601,891			
FILING DATE: 15-FEB-1996			
CLASSIFICATION: 530			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 07/977,451			
FILING DATE: 19-NOV-1992			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 07/906,397			
FILING DATE: 26-JUN-1992			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US PCT/US92/05401			
FILING DATE: 26-JUN-1992			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: TW 81102961			
FILING DATE: 15-APR-1992			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US PCT/US92/02750			
FILING DATE: 02-APR-1992			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 07/813,593			
FILING DATE: 24-DEC-1991			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 07/793,065			

FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
US-08-601-891-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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DB 540 CATAGCCTCCACTGTGTTATGCTATGTTGAGATTACAGATCACCATTCATCGCTCTGT 599
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DB 600 CAGTGACAGCATGGCATCGTGTACATCACCGAGAACAGAACTGTGTGATCC 659
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QY 1980 CCACATGGGCGAATCACTCAACCAAGTTTGCAAGAACTTGGATGCTCTTTGAAACTGA 2039
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RESULT 11
US-09-021-324-5
; Sequence 5, Application US/09021324
; Patent No. 5912133
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Ihor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Imclone Systems Incorporated
; STREET: 180 Varick Street
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/021,324
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/977,451
; FILING DATE: 1992-11-19
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/906,397
; FILING DATE: 26-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/us92/05401
; FILING DATE: 26-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: TW 81102961
; FILING DATE: 15-APR-1992
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
US-09-021-324-5

Query Match 99.0%; Score 5316.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

QY 1 CTGTGTCCCGCAGCGGATTAACCTTGCTGACCCGATTCGCGGACACCGCTGCAAGCCGCG 60
DB 1 CTGTGTCCCGCAGCGGATTAACCTTGCTGACCCGATTCGCGGACACCGCTGCAAGCCGCG 60
QY 61 GCTGAGCAGGGGCGCCGGTGCCTCCCGCTCTCCCGCTTCCCTGCGGGGGCC-ATA 119
DB 61 GCTGAGCAGGGGCGCCGGTGCCTCCCGCTCTCCCGCTTCCCTGCGGGGGCCGATA 119
QY 120 CCGCCTCTGTGACTTCTTTGCGGGCCAGGGACGAGAAAGAGTCTGTGCTGAGAACTG 179
DB 120 CCGCCTCTGTGACTTCTTTGCGGGCCAGGGACGAGAAAGAGTCTGTGCTGAGAACTG 179
QY 180 GGCCTTGTGCGCAGCGCGAGGTGACAGATGAGAGCAAGGCGCTGAGCTGTGCTCT 239
DB 180 GGCCTTGTGCGCAGCGCGAGGTGACAGATGAGAGCAAGGCGCTGAGCTGTGCTCT 239
QY 240 GTGGTCTGCGTGAAGACCCGAGCGCGCTGTGGGGTTGACTGGCGATTTTCTCATCC 299
DB 240 GTGGTCTGCGTGAAGACCCGAGCGCGCTGTGGGGTTGACTGGCGATTTTCTCATCC 299
QY 300 CCCCAAGCTCAGACACAGAAAGACATACATATTTTGGCAATATCAACCTTCAAGT 359
DB 300 CCCCAAGCTCAGACACAGAAAGACATACATATTTTGGCAATATCAACCTTCAAGT 359
QY 360 TACTTGCAGGGGACAGCGGGAGCTGAGCTGGCTTTGGCCCAATGCTCAGCGGTGATTGGA 419
DB 360 TACTTGCAGGGGACAGCGGGAGCTGAGCTGGCTTTGGCCCAATGCTCAGCGGTGATTGGA 419

QY 420 GGAAAGGGTATTGTGACCTGAATGCGCGGTGTGACAGTATCTTGTGAAAACTATCAC 479
DB 420 GGAAAGGGTATTGTGACCTGAATGCGCGGTGTGACAGTATCTTGTGAAAACTATCAC 479
QY 480 CATTCACAGGGTGTGGAAATGATACTGAGACCTCAAGTGTCTGTACCGGGACGTGCA 539
DB 480 CATTCACAGGGTGTGGAAATGATACTGAGACCTCAAGTGTCTGTACCGGGACGTGCA 539
QY 540 CATAGCTTCACCTGTTATGTCTATGTGTGAATTAAGATCAACATTCATGCTCTGT 599
DB 540 CATAGCTTCACCTGTTATGTCTATGTGTGAATTAAGATCAACATTCATGCTCTGT 599
QY 600 CAGTACACAGCATGGCATGTGTATCAATCCAGAAACAAGAACTGTGTGATCC 659
DB 600 CAGTACACAGCATGGCATGTGTATCAATCCAGAAACAAGAACTGTGTGATCC 659
QY 660 CTGCGGAGGGTGGATTTCAAACTCAATGTCTCTTTGCGGTAGGTATCCAGAAAAG 719
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QY 720 ATTTGTTCCGATGGAACAGAAATTTCTGGGACAGCGAGATAGCTTTACTCTCCAG 779
DB 720 ATTTGTTCCGATGGAACAGAAATTTCTGGGACAGCGAGATAGCTTTACTCTCCAG 779
QY 780 TTACATGATCAGCTATGCGCGCATGTCTTGTGAGGCAAGATCAATGATGAACCTTA 839
DB 780 TTACATGATCAGCTATGCGCGCATGTCTTGTGAGGCAAGATCAATGATGAACCTTA 839
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Db 5340 AATTTTAACTTAATAAATCTATCTATCTGCTGCTGCTGCTGCTGCTGCTGCTG 5391

RESULT 12
US-09-872-136B-5
; Sequence 5, Application US/09872136B
; Patent No. 6677434
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Ihor R.
; TITLE OF INVENTION: SOLUBLE HUMAN FLK-2 PROTEIN
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESS: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/872,136B
; FILING DATE: 01-Jun-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/208,786
; FILING DATE: 10-DEC-1998
; APPLICATION NUMBER: US 09/021,324
; FILING DATE: 10-FEB-1998
; APPLICATION NUMBER: US 08/601,891
; FILING DATE: 15-FEB-1996
; APPLICATION NUMBER: US 08/252,498

FILING DATE: 31-OCT-1994
APPLICATION NUMBER: US 08/055,269
FILING DATE: 30-APR-1993
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
APPLICATION NUMBER: US 07/975,049
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Mieczkowski, Elizabeth M.
REGISTRATION NUMBER: 42,226
REFERENCE/DOCKET NUMBER: 11245/46115
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-425-7200
TELEFAX: 212-425-5288
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-872-1368-5
Query Match 99.0%; Score 5336.8; DB 3; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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RESULT 13
 US-09-919-408A-5
 / Sequence 5, Application US/09919408A
 / Patent No. 6960446
 / GENERAL INFORMATION:
 / APPLICANT: Lemischka, Thor R.
 / TITLE OF INVENTION: METHOD FOR ISOLATING CELLS EXPRESSING
 / OF CELLS THAT EXPRESS FLK-2 RECEPTORS
 / NUMBER OF SEQUENCES: 11
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Kenyon & Kenyon
 / STREET: One Broadway
 / CITY: New York
 / STATE: New York
 / COUNTRY: U.S.A.
 / ZIP: 10004
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/09/919,408A
 / FILING DATE: 31-Jul-2001
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 09/208,786

FILED DATE: 10-DEC-1998
APPLICATION NUMBER: US 09/021,324
FILING DATE: 10-FEB-1998
APPLICATION NUMBER: US 08/601,891
FILING DATE: 15-FEB-1996
APPLICATION NUMBER: US 08/252,498
FILING DATE: 31-OCT-1994
APPLICATION NUMBER: US 08/055,269
FILING DATE: 30-APR-1993
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
APPLICATION NUMBER: US 07/975,049
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wieckowski, Elizabeth M.
REGISTRATION NUMBER: 42,226
REFERENCE/DOCKET NUMBER: 11245/46115
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-425-7200
TELEFAX: 212-425-5288
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
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NAME/KEY: mat_peptide
LOCATION: 265..4308
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NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-919-408A-5
Query Match 99.0%; Score 5336.8; DB 3; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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Qy	2040	tggcacacatggtttctaacagacacaaatgacatcttgattgtggcatttgcgaatgctc	2099
Db	2040	tggcacacatggtttctaacagacacaaatgacatcttgattgtggcatttgcgaatgctc	2099
Qy	2100	tctgcagagaccaaaggcgaactatggttgcctgcctcaaatatgaagaaccaaagaaaagaca	2159
Db	2100	tctgcagagaccaaaggcgaactatggttgcctgcctcaaatatgaagaaccaaagaaaagaca	2159
Qy	2160	ttggcctggtcaaaacgctcatcatctctgagagagacacccaaatgacacggaaatcct	2219
Db	2160	ttggcctggtcaaaacgctcatcatctctgagagagacacccaaatgacacggaaatcct	2219
Qy	2220	ggagaatcagaacaaacacattggcgagaccaaattgaatgacttgcaccagatctgaaaa	2279
Db	2220	ggagaatcagaacaaacacattggcgagaccaaattgaatgacttgcaccagatctgaaaa	2279
Qy	2280	ttcttaccaccaacattaatggtttcaaaagacaaagacaccttgatgaagaattcagggat	2339
Db	2280	ttcttaccaccaacattaatggtttcaaaagacaaagacaccttgatgaagaattcagggat	2339
Qy	2340	tgtactgagagatgggaacccgaactcactatccgacgggtgagaaagagatgagag	2399
Db	2340	tgtactgagagatgggaacccgaactcactatccgacgggtgagaaagagatgagag	2399
Qy	2400	cctctacacctggacaggccttgcaatgtccttggtgtgcaaaagcgagacgctcttcat	2459
Db	2400	cctctacacctggacaggccttgcaatgtccttggtgtgcaaaagcgagacgctcttcat	2459

QY	2460	AATAGAGGTGCCAGAGAAAAGACCAATTGGAAGTCATTATCTCGTCCGACATGCACGT	2513
Db	2460	AATAGAAAGTCCCGAGAAAAGAACCAATTGGAAGTCATTATCTCGTCCGACATGCACGT	2519
QY	2520	GATTGCCATGTTCTTGTGGCTCTTCTTGTGATGTGCTCAAGACCGTTAAGCGGGCCAA	2579
Db	2520	GATTGCCATGTTCTTGTGGCTCTTCTTGTGATTTCTGTACGACCGTTAAGCGGGCCAA	2579
QY	2580	TGAAGGGAACTGAAGACAGGCTACTTGTCTATTGTCAATGATCCAGATGAATTGCCCTT	2639
Db	2580	TGAAGGGGAACCTGAAGACAGGCTACTTGTCTATTGTCAATGATCCAGATGAATTGCCCTT	2639
QY	2640	GGATGAGGCGCTGTAAAGCTTGCCCTATATGATGCCAGAAAGTGGAAATTCCCAAGGACCG	2699
Db	2640	GGATGAGGCGCTGTGAAGCTTGCCCTATATGATGCCAGAAAGTGGAAATTCCCAAGGACCG	2699
QY	2700	GCTGAACTAGAGAAAACCTCTTTGGCCGCGGTGCTTGGCCCAAGTGAATTGAGCAGACGC	2759
Db	2700	GCTGAAACTAGAGAAAACCTCTTTGGCCGCGGTGCTTGGCCCAAGTGAATTGAGCAGACGC	2759
QY	2760	TTTTGGAATTGAACAAGACAGGACTTGGCAAAACAGTAGCCGTCAAGATGTTGAAAAGAGG	2819
Db	2760	TTTTGGAATTGAACAAGACAGGACTTGGCAAAACAGTAGCCGTCAAGATGTTGAAAAGAGG	2819
QY	2820	AGCAACACACAGCGAGCATCGAGCCCTCATGTCTGAACCTCAAGATCCATCATCATTTGG	2879
Db	2820	AGCAACACACAGCGAGCATCGAGCCCTCATGTCTGAACCTCAAGATCCATCATCATTTGG	2879
QY	2880	TCACCATTCTAATGTGTGAACCTCTCTAGCGCGCTGCACCAAGCCGGAGGGCCCTCAT	2939
Db	2880	TCACCATTCTAATGTGTGAACCTCTCTAGCGCGCTGCACCAAGCCGGAGGGCCCTCAT	2939
QY	2940	GGTGATGTGTGAATTCTGCAGATTGTGGAAACCTATCAACTTCAACGGGGCAAGAGAA	2999
Db	2940	GGTGATGTGTGAATTCTGCAGATTGTGGAAACCTATCAACTTCAACGGGGCAAGAGAA	2999
QY	3000	TGAATTGTGTCCTATTAAGAGCAAGGGGCAAGCTTCCGCCAGGGCAAGACATACGTTGG	3059
Db	3000	TGAATTGTGTCCTATTAAGAGCAAGGGGCAAGCTTCCGCCAGGGCAAGAGCTACGTTGG	3059
QY	3060	GGACCTCCCGCGGATCTCGAAABAACGCTTGGAGACATCTCATCTGTTAACAGCTTCCAAATGGC	3119
Db	3060	GGACCTCCCGCGGATCTCGAAABAACGCTTGGAGACATCTCATCTGTTAACAGCTTCCAAATGGC	3119
QY	3120	CAGCTCAGGCTTGTGTGAGAGAAATGCTCATGTAGTAGAGAGAAAGAGCTTCTGCA	3179
Db	3120	CAGCTCAGGCTTGTGTGAGAGAAATGCTCATGTAGTAGAGAGAAAGAGCTTCTGCA	3179
QY	3180	AGAACTGTACAGAGACTTCTCGACCTTGGAGCATCTCATCTGTTAACAGCTTCCAAATGGC	3239
Db	3180	AGAACTGTACAGAGACTTCTCGACCTTGGAGCATCTCATCTGTTAACAGCTTCCAAATGGC	3239
QY	3240	TAAAGGCGCTGAGATTCTTGGCATCAAGAAAGTGTATCCAAGGGAACCTGGCAGACAGAA	3299
Db	3240	TAAAGGCGCTGAGATTCTTGGCATCAAGAAAGTGTATCCAAGGGAACCTGGCAGACAGAA	3299
QY	3300	CATTCTCCTATCGAGAGAAATGTGTTAAGATCTGTGACTTCGGCTTGGCCCGGACAT	3359
Db	3300	CATTCTCCTATCGAGAGAAATGTGTTAAGATCTGTGACTTCGGCTTGGCCCGGACAT	3359
QY	3360	TTATTAAGACCCGGATTAATGTCAAAAAAGGAGTCCCGACTCCCTTGAAGTGGATGGC	3419
Db	3360	TTATTAAGACCCGGATTAATGTCAAAAAAGGAGTCCCGACTCCCTTGAAGTGGATGGC	3419
QY	3420	CCCGGAAACCATTTTTTGAACAGATATACAAATTCAGAGGATGTGTGTCTTTCGGTGT	3479
Db	3420	CCCGGAAACCATTTTTTGAACAGATATACAAATTCAGAGGATGTGTGTCTTTCGGTGT	3479
QY	3480	GTTGCTCTGGGAAATATTTTCTTAAAGTGCCTCCCATACCTCTGGGCTCAAGATTGATGA	3539
Db	3480	GTTGCTCTGGGAAATATTTTCTTAAAGTGCCTCCCATACCTCTGGGCTCAAGATTGATGA	3539

OY	3540	AGAA	TTTTGTAGAGATTGAAAGAAAGAACTGAAATGGGGGCTCTGACTACATACCC	3599
Db	3540	AGAA	TTTTGTAGAGATTGAAAGAAAGAACTGAAATGGGGGCTCTGACTACATACCC	3599
OY	3600	AGAA	ATGTACAGACCATGCTGGACTGCTGGCATAGAGACCACAACAGACCTCGTT	3658
Db	3600	AGAA	ATGTACAGACCATGCTGGACTGCTGGCATAGAGACCACAACAGACCTCGTT	3658
OY	3660	TTCA	GAGTGTGGTGGACATTTGGGAACTCTCGAAGCAAAATGCGACAGAGATGCA	3719
Db	3660	TTCA	GAGTGTGGTGGACATTTGGGAACTCTCGAAGCAAAATGCGACAGAGATGCA	3719
OY	3720	AGACT	ATATTTGTTCTTCCAAATGTCAGAGCACTGAGCAATGGAAGAGATTCTGACTTC	3779
Db	3720	AGACT	ATATTTGTTCTTCCAAATGTCAGAGCACTGAGCAATGGAAGAGATTCTGACTTC	3779
OY	3780	CCTGC	CTACCTCACCTGTTTCTGTATGGAGGAAAGAGAGTGTGCGACCCCAATTCCA	3839
Db	3780	CCTGC	CTACCTCACCTGTTTCTGTATGGAGGAAAGAGAGTGTGCGACCCCAATTCCA	3839
OY	3840	TTATGA	CAACACAGCAGAGATCATATTATCTCCAGAACAGTAAGCAAAAGACCGGCTC	3899
Db	3840	TTATGA	CAACACAGCAGAGATCATATTATCTCCAGAACAGTAAGCAAAAGACCGGCTC	3899
OY	3900	AGTGA	GTGTAATAAATTTGAAAGATATCCCATTTGAGAGAACCAAGTAATAAGTATCCC	3959
Db	3900	AGTGA	GTGTAATAAATTTGAAAGATATCCCATTTGAGAGAACCAAGTAATAAGTATCCC	3959
OY	3960	AGATACA	CGCCAGACAGACAGTGGGATGTCCTTGATCAGAAAGCTGAAACCTTGGA	4019
Db	3960	AGATACA	CGCCAGACAGACAGTGGGATGTCCTTGATCAGAAAGCTGAAACCTTGGA	4019
OY	4020	AGACAGA	AACAATATATCTCCATCTTTGTGGAAATGATGCCCAGTAATAACAGGAGATC	4079
Db	4020	AGACAGA	AACAATATATCTCCATCTTTGTGGAAATGATGCCCAGTAATAACAGGAGATC	4079
OY	4080	TGTGG	CTTCGGAAAGGCTCCAAACAGATGGCTACAGATCTGGGTATCATCTAGATGA	4139
Db	4080	TGTGG	CTTCGGAAAGGCTCCAAACAGATGGCTACAGATCTGGGTATCATCTAGATGA	4139
OY	4140	CACAGA	CACACCCGTACTCCAGGACGAGGACGAACTTTTAAAGATGATGATGCTGC	4199
Db	4140	CACAGA	CACACCCGTACTCCAGGACGAGGACGAACTTTTAAAGATGATGATGCTGC	4199
OY	4200	AGTTCA	CGCTGACTCAGGGACCAACTGCTGCTGTTTAAATGGAATGTCCTC	4259
Db	4200	AGTTCA	CGCTGACTGACTAGGGACCAACTGCTGCTGTTTAAATGGAATGTCCTC	4259
OY	4260	TGTCC	CGGCTCGCCCACTCTCGAATAATCAAGAGAGGTCTGTGATTTTCAA	4319
Db	4260	TGTCC	CGGCTCGCCCACTCTCGAATAATCAAGAGAGGTCTGTGATTTTCAA	4319
OY	4320	GTTGTT	CTTTTCCACCAACCGGAAATGCAATTTGATTTTCAATTTTGGAGAGGGA	4379
Db	4320	GTTGTT	CTTTTCCACCAACCGGAAATGCAATTTGATTTTCAATTTTGGAGAGGGA	4379
OY	4379	CCTCA	GATGCAAGGACTTGTCTCAGAGGCAATTTCCAGAGATGCGCCATGACCAAG	4439
Db	4380	CCTCA	GATGCAAGGACTTGTCTCAGAGGCAATTTCCAGAGATGCGCCATGACCAAG	4439
OY	4439	AATGT	TTGACTTACTCTCTTTTCCATTTCAATTTAAAGTCTATATATATGTCCTGCT	4499
Db	4440	AATGT	TTGACTTACTTACTCTCTTTTCCATTTCAATTTAAAGTCTATATATATGTCCTGCT	4499
OY	4499	GTGAT	CTTCACTACAGTTAAAGCAAAAGACTTTCAAAACGTGGAATCTGTCTCCAGA	4559
Db	4500	GTGAT	CTTCACTACAGTTAAAGCAAAAGACTTTCAAAACGTGGAATCTGTCTCCAGA	4559
OY	4559	AGTGG	CAACGGCACTCTGTGAAATGGAATGGCAATGCTTTGTGTTGAGAGAT	4619
Db	4560	AGTGG	CAACGGCACTCTGTGAAATGGAATGGCAATGCTTTGTGTTGAGAGAT	4619
OY	4619	GGGTG	AGATGTTCCAGGCGAGTCTGTCTTCACTTTGAGAGGCTTTGTGAGAGATCGGCTA	4678

Db	4620	GGGTAGATGTCCTCCAGGCGCCAGTGTCTCTACCTTGGAGGGCTTTGGAGGATCGGCTA	4679
Qy	4679	TGAGCCAAGTGTTAAGTGTGGATATGTGACCTGGAGAGAAAGAGAGCCCAAGTCCTCGGA	4738
Db	4680	TGAGCGAAGTGTTAAGTGTGGATATGTGACCTGGAGAGAAAGAGAGCCCAAGTCCTCGGA	4739
Qy	4739	GAGCGGTTGAGACCTGCGAGATGCAATTTGTGTGGCTCTGTGTGAGAGTGTGGGCTGTG	4798
Db	4740	GAGCGGTTGAGACCTGCGAGATGCAATTTGTGTGGCTCTGTGTGAGAGTGTGGGCTGTG	4799
Qy	4799	TCAGGAAACGAAAGCGCGCGCGAGGTTTGTGTTTGGAAAGTTTGTGTGTCTTACCA	4858
Db	4800	TCAGGAAACGAAAGCGCGCGCGAGGTTTGTGTTTGGAAAGTTTGTGTGTCTTACCA	4859
Qy	4859	GTCGGGTTTACAGACGAGTTCCTGTGGGAGTTTCTCTACCTTATGAGAGTTCTTCCGGA	4918
Db	4860	GTCGGGTTTACAGACGAGTTCCTGTGGGAGTTTCTCTACCTTATGAGAGTTCTTCCGGA	4919
Qy	4919	CTCTTACGTTCTCTGTGGCTGTGGCCCGAGAGGAAATGATGCACTTGTCTTCTCA	4978
Db	4920	CTCTTACGTTCTCTGTGGCTGTGGCCCGAGAGGAAATGATGCACTTGTCTTCTCA	4979
Qy	4979	TCTCTCAGGCTGTGCTTATTTACAGAACCAAAAGAGAGAACGTGGCGAGAGGCTCT	5038
Db	4980	TCTCTCAGGCTGTGCTTATTTACAGAACCAAAAGAGAGAACGTGGCGAGAGGCTCT	5039
Qy	5039	GACGGGGCCGAGAAATGTGAGAACAGAAACGAAATCAGGAGTTTCTGTGGGAGAGAC	5098
Db	5040	GACGGGGCCGAGAAATGTGAGAACAGAAACGAAATCAGGAGTTTCTGTGGGAGAGAC	5099
Qy	5099	CCACGTGGCGGCTGTGTGGCAGGCTGTGAGGTTTCTGTCAAGTGGCGGTAAGAGCTCAG	5158
Db	5100	CCACGTGGCGGCTGTGTGGCAGGCTGTGAGGTTTCTGTCAAGTGGCGGTAAGAGCTCAG	5159
Qy	5159	GCTGTGTTCTTCTCTATCTTCCACTCTGTGAGGCCCCAAGTCTCAGTATTTAGCT	5218
Db	5160	GCTGTGTTCTTCTCTATCTTCCACTCTGTGAGGCCCCAAGTCTCAGTATTTAGCT	5219
Qy	5219	TTGTGGCTTCTGTAAGGAGAGAAATCTTAAATGGTGTGTTGTGCTCCAGATTAATCACT	5278
Db	5220	TTGTGGCTTCTGTAAGGAGAGAAATCTTAAATGGTGTGTTGTGCTCCAGATTAATCACT	5279
Qy	5279	AGCGAGATTTGCAATTAATCTTTTAGCGGAGTATGATAAATCTACTATCTTCTTAG	5338
Db	5280	AGCGAGATTTGCAATTAATCTTTTAGCGGAGTATGATAAATCTACTATCTTCTTAG	5339
Qy	5339	AATTTTAACTATAAACTATGCTACTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGT	5390
Db	5340	AATTTTAACTATAAACTATGCTACTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGT	5391

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FILING DATE: 19920402
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: PEIT, IRVING N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-P.PPPT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 208..4308
PCT-US92-02750-7

Query Match 99.0%; Score 5336.8; DB 6; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

QY 1 CTGTGTCCCGACGCGGATTAACCTGTGACCCGATTCGCGGACACCGCTGACGCCG 60
DB 1 CTGTGTCCCGACGCGGATTAACCTGTGACCCGATTCGCGGACACCGCTGACGCCG 60
QY 61 GCTGAGCCAGGCGCGGTGCGCGGCTCTCCCGGCTTTGGCTGCGCGGCGCC-ATA 119
DB 61 GCTGAGCCAGGCGCGGTGCGCGGCTCTCCCGGCTTTGGCTGCGCGGCGCC-ATA 119
QY 120 CCGCTCTGTGACTCTTTTGGCGGCGCAGAGACGAGAGAGAGTGTGTGCTGAGAACTG 179
DB 120 CCGCTCTGTGACTCTTTTGGCGGCGCAGAGACGAGAGAGAGTGTGTGCTGAGAACTG 179
QY 180 GGCCTGTGCGGCGGCGGAGGTGCGAGATGAGAGAGAGGCGCTGAGCTGTGCTCT 239
DB 180 GGCCTGTGCGGCGGCGGAGGTGCGAGATGAGAGAGAGGCGCTGAGCTGTGCTCT 239
QY 240 GTGGTTCGCGTGAAGACCCGAGCGCGCTGTGGGTTTGACTGGCGATTTTCTCATCC 299
DB 240 GTGGTTCGCGTGAAGACCCGAGCGCGCTGTGGGTTTGACTGGCGATTTTCTCATCC 299
QY 300 CCCCAAGCTCAACACAGAAAGACATCTGACATTTTGGCAATATACACCTTCAAT 359
DB 300 CCCCAAGCTCAACACAGAAAGACATCTGACATTTTGGCAATATACACCTTCAAT 359
QY 360 TACTTTCAGGAGACGCGGACCTGAGCTGGCTTTGGCCCAATGCTCAGCGGATTCGA 419
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QY 420 GGAAGGGTATTGGTGACTGAATGGGCGGTGTCAGATCTTCTGCAAAACCTGAC 479
DB 420 GGAAGGGTATTGGTGACTGAATGGGCGGTGTCAGATCTTCTGCAAAACCTGAC 479
QY 480 CATTCCAGGGTGTGGAAATGATATGAGACCTTACAGTCTGTAACCGGAGAGTGA 539
DB 480 CATTCCAGGGTGTGGAAATGATATGAGACCTTACAGTCTGTAACCGGAGAGTGA 539
QY 540 CATAGCTTCACGTGTTATGTCTATGTTCAGATTAACGATCAACCATTCATCGCTCTGT 599
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QY 600 CAGTGAACAGATGAGCATGTGTATCATGACGAGAAACAAGAACTGTGTGATCC 659
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QY 660 CTGCGAGGGTGAATTTCAACCTCAATGTGTCTTTGCGCTAGTATCCAGAAAGAG 719
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QY 720 ATTTGTTCCGATGAGAAACAGAAATTTCTGTGGACAGGAGATAGCTTTACTTCCAG 779
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QY 840 TCACTATCATGATGATAGTGTGTGTGATGATATAGATTTATGATGATGATCTGAG 899
DB 840 TCACTATCATGATGATAGTGTGTGTGATGATATAGATTTATGATGATGATCTGAG 899
QY 900 CCCCCCGCATGAATTTGAGCTATCTGCCGAGAAACCTTGTCTTAAATTTGATCAGCGAG 959
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QY 1380 TGAAGAGATGACAGAAACTACAGGTCATCTCAACCAACCCCATTTCAATGAGAAACA 1439
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QY 1560 CAACCTTCCCTGACCAATCAAGTGTACTGACGCTGAGAAAGCTCTCTCTCAAG 1619
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QY 1740 TGTAACTACGCTGTGATCAACAGCTGCAACGTGTGAGCTTGTAAATGTGAAGCAT 1799

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Db 1740 TGTAAATAGCGCTGCTGATCCAGACTGCGCAAGTGCAGCGTTGTACAAATGTGAAGCAT 1799
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Db 1800 CAACAAAGCGGGAGCGAGAGAGAGGGTCAATCTCCTTCATGTAATGACAGGGCTCTGAAT 1859
Qy 1860 TACTGTGCAACCTGCTGCCAGCCAACTGACAGAGAGAGTGTGCTCCTGTTGTGCACTGC 1919
Db 1860 TACTGTGCAACCTGCTGCCAGCCAACTGACAGAGAGAGTGTGCTCCTGTTGTGCACTGC 1919
Qy 1920 AGACAGAAATACGTTTGAGAACTCAAGTGTCAAGAGCTTGCTCACAGGCAACATCGGT 1979
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Db 1980 CCACATGGGGGAATCACTCAACACCATTTGGCAAGAACTTGGAGTCTTTTGGAAATGTGA 2039
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Db 2220 GGAGAAATCAGACAAACAACATTGGCGAGACCAATTGAAGTGAAGCTTGCCAGCATTTGAAA 2279
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Qy 3180 AGAAGCTGTAACAAGACTTCTGACCTTGGAGCATCTCATCTGTATACAGCTTCAAGTGGC 3239
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Db 3240 TAAAGGCAATGAGATTTCTTGGCATCAAGAAAGTGTATCCAAGAGACCTTGGCAGCAGAAA 3299
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Db 3300 CATTCCTCATGGAAGAAAGTGTGTTAAGATCTGTGACTTGGCTTGGCCCGGGACAT 3359
Qy 3360 TTATAAAGACCCGGAATTAATGTGAGAAAAGAGATCCCGACTCCCTTGAAGTGAATGGC 3419
Db 3360 TTATAAAGACCCGGAATTAATGTGAGAAAAGAGATCCCGACTCCCTTGAAGTGAATGGC 3419
Qy 3420 CCGGGAACCAATTTTGGACAGATTAACAATTAAGACGATGTGTGCTTTGGTGT 3479
Db 3420 CCGGGAACCAATTTTGGACAGATTAACAATTAAGACGATGTGTGCTTTGGTGT 3479
Qy 3480 GTTGTCTGGGGAATTAATTTCTTGTAGTGCCCTCCCATACCTGGGGGTCAAGATTGATGA 3539
Db 3480 GTTGTCTGGGGAATTAATTTCTTGTAGTGCCCTCCCATACCTGGGGGTCAAGATTGATGA 3539
Qy 3540 AGAATTTTGTAGAGATTTGAAGAAAGAACTAAGATGGGGGCTCTGACTACACTACCCC 3599
Db 3540 AGAATTTTGTAGAGATTTGAAGAAAGAACTAAGATGGGGGCTCTGACTACACTACCCC 3599
Qy 3600 AGAATTTTGTAGAGATTTGAAGAAAGAACTAAGATGGGGGCTCTGACTACACTACCCC 3659
Db 3600 AGAATTTTGTAGAGATTTGAAGAAAGAACTAAGATGGGGGCTCTGACTACACTACCCC 3659
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Db 3660 TTCAAGTTGGTGGAGCAATTTGGGGAACCTCCTGGAACCAATGGCGAGAGAGTGGCA 3719
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Qy 3780 CCTGCTTACCTTCACTGTTTCTGTATGAGAGAAAGAAAGTGTGCGAATCCCAATTTCCA 3839
Db 3780 CCTGCTTACCTTCACTGTTTCTGTATGAGAGAAAGAAAGTGTGCGAATCCCAATTTCCA 3839
Qy 3840 TTATGACAAACAGAGAGAAATCAAGTATTAATCTCCAGAAAGTGAAGAGAGAGCGCGCC 3899
Db 3840 TTATGACAAACAGAGAGAAATCAAGTATTAATCTCCAGAAAGTGAAGAGAGAGCGCGCC 3899
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OY	3960	AGATGACGCCAGACAGACAGTGGGATGTCCTTGCAATCAGAAAGCTGAAAATTCTTGGAA	40118
Dp	3960	AGATGACGCCAGACAGACAGTGGGATGTCCTTGCAATCAGAAAGCTGAAAATTCTTGGAA	40119
OY	4020	AGACAGGAACAAATATATCTCATCTTTTGATGATGATGCGAGTAAGACAGGAGTC	40719
Dp	4020	AGACAGGAACAAATATATCTCATCTTTTGATGATGATGCGAGTAAGACAGGAGTC	40720
OY	4080	TGTGGCCTTCGGAAGGCTCCAAACAGACCAATGAGTACAGTCTGGGTATATCATCAGATGA	41319
Dp	4080	TGTGGCCTTCGGAAGGCTCCAAACAGACCAATGAGTACAGTCTGGGTATATCATCAGATGA	41320
OY	4140	CACAGACACCAACCGTGTACTCCAGGAGCAAGGACAGACTTTTAAAGATGATGATGCTGC	41399
Dp	4140	CACAGACACCAACCGTGTACTCCAGGAGCAAGGACAGACTTTTAAAGATGATGATGCTGC	41400
OY	4200	AGTTCAAGCTGACTCAGGAGACCACTCAGTCACTCTCTGTTTAAATGGAAGTGCTCC	42588
Dp	4200	AGTTCAAGCTGACTCAGGAGACCACTCAGTCACTCTCTGTTTAAATGGAAGTGCTCC	42589
OY	4259	TGTCCCGGCTCCGCCCCCACTCTCTGGAATATCAGAGAGAGTGTGCTTATGATTTTCAA	43118
Dp	4260	TGTCCCGGCTCCGCCCCCACTCTCTGGAATATCAGAGAGAGTGTGCTTATGATTTTCAA	43119
OY	4319	GTGTGTTCTTTCCACCAACCGGAAAGTAGCACTTATTTTCACTTTTGGAGAGAGGA	43787
Dp	4320	GTGTGTTCTTTCCACCAACCGGAAAGTAGCACTTATTTTCACTTTTGGAGAGAGGA	43788
OY	4379	CCTCAGACTGCAAGGAGCTTGTCTCAGAGGCAATTCAGAGAGATGCCCCATGACCCAG	44388
Dp	4380	CCTCAGACTGCAAGGAGCTTGTCTCAGAGGCAATTCAGAGAGATGCCCCATGACCCAG	44389
OY	4439	AATGATGTGACTCTACTCTCTTTTCATTTCAATTTAAAGTCCATATATATGNCGCTCT	44988
Dp	4440	AATGATGTGACTCTACTCTCTTTTCATTTCAATTTAAAGTCCATATATATGNCGCTCT	44989
OY	4499	GTGCTCTCACTACAGATTAAAGCAAAAGACTTTCAACACGTGACCTGTCTCTCAAGA	45588
Dp	4500	GTGCTCTCACTACAGATTAAAGCAAAAGACTTTCAACACGTGACCTGTCTCTCAAGA	45589
OY	4559	AGTGCAACCGCACTCTGTGTAACATGGAATGGAATGGGCAATGCTTGTGTGAGGAT	46188
Dp	4560	AGTGCAACCGCACTCTGTGTAACATGGAATGGAATGGGCAATGCTTGTGTGAGGAT	46189
OY	4619	GAGTGAGATGTCCACAGGCGCGAGTCTGTACTCTTGGAGAGCTTTGTGAGAGATGCGGCTA	46787
Dp	4620	GAGTGAGATGTCCACAGGCGCGAGTCTGTACTCTTGGAGAGCTTTGTGAGAGATGCGGCTA	46788
OY	4679	TGAGCCAAAGTTTAAAGTGGGATGTGACTGGAAGAGAAAGGCGCAAGTCCGTCGGA	47388
Dp	4680	TGAGCCAAAGTTTAAAGTGGGATGTGACTGGAAGAGAAAGGCGCAAGTCCGTCGGA	47389
OY	4739	GAGCGGTTGGAGCCGAGATGCAATTGAGCTGGGCTCTGTGGAGGTGGGCTGTGAGCGCTG	47988
Dp	4740	GAGCGGTTGGAGCCGAGATGCAATTGAGCTGGGCTCTGTGGAGGTGGGCTGTGAGCGCTG	47989
OY	4799	TCAAGAAACGCAAAAGCGCGCGCGAGGAGTTGGTTTGGAAAGTTTGCGTCTTTCACA	48588
Dp	4800	TCAAGAAACGCAAAAGCGCGCGCGAGGAGTTGGTTTGGAAAGTTTGCGTCTTTCACA	48589
OY	4859	GTCGGGTTTACAGGCGAGTTCCCTGTGGGCTTTCATCTCTAATATAGAGTTCTTTCGGA	49188
Dp	4860	GTCGGGTTTACAGGCGAGTTCCCTGTGGGCTTTCATCTCTAATATAGAGTTCTTTCGGA	49189
OY	4919	CTCTTACGTTGTCTCTGGGCTTGGCCCCCAGAGAAATGATGACGTTGCTCTTCTCTCA	49787
Dp	4920	CTCTTACGTTGTCTCTGGGCTTGGCCCCCAGAGAAATGATGACGTTGCTCTTCTCTCA	49788
OY	4979	TCTCTCAGGCTGTGCTTATTTCAAGAACCAAAAGAGAGAAAGTCCGCGAGAGGCTCTT	50388
Dp	4980	TCTCTCAGGCTGTGCTTATTTCAAGAACCAAAAGAGAGAAAGTCCGCGAGAGGCTCTT	50389

Qy	5039	GACGGGGCCCAAGAAATTGTAGAACACAACAGAACTCAGGGTTTCGTCGGGGGAGAC	5098
Db	5040	GACGGGGCCCAAGAAATTGTAGAACACAACAGAACTCAGGGTTTCGTCGGGGGAGAC	5099
Qy	5099	CCAGGTGGCGCCCTCGTGGAGAGCTGTAGGGTTCTCTGTCAAGTGGCGGTAAAGGCTCAG	5158
Db	5100	CCAGGTGGCGCCCTCGTGGAGAGCTGTAGGGTTCTCTGTCAAGTGGCGGTAAAGGCTCAG	5159
Qy	5159	GCTGGTGTCTTCCTCATCTCCACTCCTGTCAAGCCCCCAAGTCTCAGTATTTTAACT	5218
Db	5160	GCTGGTGTCTTCCTCATCTCCACTCCTGTCAAGCCCCCAAGTCTCAGTATTTTAACT	5219
Qy	5219	TTGTGGCTCTCTGATGGCAGAAAATCTTAAATTGGTTGGTTTGCCTTCACAGATATCACT	5278
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Qy	5279	AGCCAGATTTGAAATTACTTTTAAAGCGAGGTTATGATACTACTATCTTATCTCTTAA	5338
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Qy	5339	AATTTTAACTATAAATACTATGCTACTGGTTTGCCTGTGACTTATATGTT	5390
Db	5340	AATTTTAACTATAAATACTATGCTACTGGTTTGCCTGTGACTTATATGTT	5391

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RESULT 15
PCT-US92-05401-5
/ Sequence 5, Application PC/TUS9205401
/ GENERAL INFORMATION:
/ APPLICANT: Lemischka, Ihor R.
/ TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
/ TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
/ NUMBER OF SEQUENCES: 6
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
/ STREET: 180 VARICK STREET
/ CITY: NEW YORK
/ STATE: NEW YORK
/ COUNTRY: U.S.A.
/ ZIP: 10014
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/05401
/ FILING DATE: 19920626
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Peit, Irving N.
/ REGISTRATION NUMBER: 28,601
/ REFERENCE/DOCKET NUMBER: LEM-3-PPPPPT
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 212-645-1405
/ TELEFAX: 212-645-2054
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 5406 base pairs
/ TYPE: NUCLEIC ACID
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 208..4311
/ FEATURE:
/ NAME/KEY: mat_peptide
/ LOCATION: 208..4308
/
PCT-US92-05401-5

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Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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 QY 4200 AGTTACGCTGATCTCAGGAGACCACTGCACTCCTCTGTTTAAATGAGATGTGCTC 4259
 Db 4200 AGTTACGCTGATCTCAGGAGACCACTGCACTCCTCTGTTTAAATGAGATGTGCTC 4259
 QY 4259 TGTCCGAGCTTCCGCTCCCACTCTGGAATCAGAGAGAGTGTCTGTTAATTTTCAA 4318
 Db 4259 TGTCCGAGCTTCCGCTCCCACTCTGGAATCAGAGAGAGTGTGTCTGTTAATTTTCAA 4318
 QY 4260 TGTCCGAGCTTCCGCTCCCACTCTGGAATCAGAGAGAGTGTGTCTGTTAATTTTCAA 4319
 Db 4260 TGTCCGAGCTTCCGCTCCCACTCTGGAATCAGAGAGAGTGTGTCTGTTAATTTTCAA 4319
 QY 4319 GTTGTGTTCTTTTCCACACCCCGGAAGTATGCAATTTGATTTTGAAGAGGGA 4378

Db 4320 GTGTTGCTTTCCACCACCGGAGTAGCACATTTGATTTTCATTTTGGAGAGGA 4379
 QY 4379 CCTCAGACTGCAAGAGCTTGTCTCAGGCAATTTCCAGAGATGCCCATGACCCAG 4438
 Db 4380 CCTCAGACTGCAAGAGCTTGTCTCAGGCAATTTCCAGAGATGCCCATGACCCAG 4439
 QY 4439 AATGTGTGACTACTCTCTTTTCCATTCATTTAAAGTCTATATAATGTGCTGCT 4498
 Db 4440 AATGTGTGACTACTCTCTTTTCCATTCATTTAAAGTCTATATAATGTGCTGCT 4499
 QY 4499 GTGCTCTCACTACCACTTAAGCAAAAGACTTTCAACAGTGAAGCTGTCTCCAGA 4558
 Db 4500 GTGCTCTCACTACCACTTAAGCAAAAGACTTTCAACAGTGAAGCTGTCTCCAGA 4559
 QY 4559 AATGCAAGGCACTCTGTGAACAGTAAGCAAGTGAAGTGTGTGTGAAGAT 4618
 Db 4560 AATGCAAGGCACTCTGTGAACAGTAAGCAAGTGAAGTGTGTGTGAAGAT 4619
 QY 4619 GGGTGAATGTCCAGAGGCGAGTCTGTCTACCTTGAAGGCTTTGTGAAGATGCGCTA 4678
 Db 4620 GGGTGAATGTCCAGAGGCGAGTCTGTCTACCTTGAAGGCTTTGTGAAGATGCGCTA 4679
 QY 4679 TGAAGCAATGTTAAGTGTGGATGTGAAGTGGAGAAAGAAAGCGCAAGTGTGGA 4738
 Db 4680 TGAAGCAATGTTAAGTGTGGATGTGAAGTGGAGAAAGAAAGCGCAAGTGTGGA 4739
 QY 4739 GAGCGGTTGAGAGCTGAGATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 4798
 Db 4740 GAGCGGTTGAGAGCTGAGATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 4799
 QY 4799 TCAGGAAACGCAAGGCGGCGAGAGGTTGGTTTGGAGGTTGCGTCTTCA 4858
 Db 4800 TCAGGAAACGCAAGGCGGCGAGAGGTTGGTTTGGAGGTTGCGTCTTCA 4859
 QY 4859 GTGCGGTTACAGGCGAGTTCCTGTGGCTTCTACTCTTAATGAGAGTCTTCCGA 4918
 Db 4860 GTGCGGTTACAGGCGAGTTCCTGTGGCTTCTACTCTTAATGAGAGTCTTCCGA 4919
 QY 4919 CTCTTACGTTCTCTGAGGCTGAGGCGGCGAGAGAAATGATGAGAGTGTCTCTCTCA 4978
 Db 4920 CTCTTACGTTCTCTGAGGCTGAGGCGGCGAGAGAAATGATGAGAGTGTCTCTCTCA 4979
 QY 4979 TCTCTCAGGCTGTGCTTAATTCAGAACCAAAAGAGAGAAAGTGTGAGAGGCTCT 5038
 Db 4980 TCTCTCAGGCTGTGCTTAATTCAGAACCAAAAGAGAGAAAGTGTGAGAGGCTCT 5039
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 Db 5040 GACGGGCGGAGAAATGTGAGAACAGAACAGAACTCAGGTTTCTGTGAGTGAAGC 5099
 QY 5099 CCAGGTGGGCGGCTGAGTGTGAGAGGTTCTGTCAAGTGGCGGTAAGGCTCAG 5158
 Db 5100 CCAGGTGGGCGGCTGAGTGTGAGAGGTTCTGTCAAGTGGCGGTAAGGCTCAG 5159
 QY 5159 GCTGTGTCTCTCTATCTCAGTGTGAGGCGGCGGCAAGTCTCAGTATTTAGCT 5218
 Db 5160 GCTGTGTCTCTCTATCTCAGTGTGAGGCGGCGGCAAGTCTCAGTATTTAGCT 5219
 QY 5219 TTGTGCTTCTGATGGAGAAAAATCTTAATTGTTGTTGCTCTCAGATTAATCACT 5278
 Db 5220 TTGTGCTTCTGATGGAGAAAAATCTTAATTGTTGTTGCTCTCAGATTAATCACT 5279
 QY 5279 AGCGAGATTTGGAATTTCTTTTGGCGAGGTTATGATTAATCACTATCTCTTAG 5338
 Db 5280 AGCGAGATTTGGAATTTCTTTTGGCGAGGTTATGATTAATCACTATCTCTTAG 5339
 QY 5339 AATTTAACTTAATAAATATGATGATGTTTGTGCTGTGTGTGTGTGTGTGTGTGT 5390
 Db 5340 AATTTAACTTAATAAATATGATGATGTTTGTGCTGTGTGTGTGTGTGTGTGTGT 5391

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QY 313 ACACAGAAAACATACCTGACAAATTTGGCAAAATACAAACCTTCAGATTACTTGACAGGGGA 372
Db 354 ACACAAAAAGACATCTTACAATTTTGGCAAAATACAAACCTTCAGATTACTTGACAGGGGA 413
QY 373 CAGCGGGACCTGGACATGCTTTGGCCCAATGCTGACGCTGATCTTGAGAGAAAGGATATG 432
Db 414 CAGAGGGACCTGGATGGCTTTGGCCCAACCTCGCGTGACTCTGAGAGAAAGGATGTTG 473
QY 433 GTGACTGATGCGGGGCTGTGACAGTATCTTCTGCAAAAACCTGACCATTCGCCAGGGTG 492
Db 474 GTGACTGATG-----GTGGGACAGTATCTTCTGCAAGACACTGACAGTTTCCAGATG 527
QY 493 GTTGAAAATGATACTGAGACCTACAGTGTCTGTACCGGGACGTGACATAGCTCCACT 552
Db 528 GTTGAAAATGATACTGAGACCTACAGTGTCTGTACCGGGACACCGAGTGTCTCTCCATC 587
QY 553 GTTATGTCTATGTTCCGAGATTACAGATCACCATTGATGCGCTGTGTAGAGACAGAT 612
Db 588 GTTATGTCTATGTTCCAGATTCACAGTCCACCTTCACTGCTGTACAGTACAGAT 647
QY 613 GGCATCTGTATCATCACCGAGAACAGAAACAAAACCTGTGTGATCCCTGCGAGGGTGC 672
Db 648 GGCATCTGTATCATCATCAGAGAACAGAAACAAAACCTGTGTGATCCCTGCGAGGGTGC 707
QY 673 ATTTCAAACCTCAATGTGTCTCTTTGCGCTAGGTATCCAGAAAAGAGATTTGTTCCGAT 732
Db 708 ATTTCAAACCTCAACGTGTCACTTGTGTCTAGGTATCCAGAAAAGAGATTTGTTCCGAT 767
QY 733 GAAAACGAATTTCTCGGGAACAGGAGATAGGCTTTACTCTCCCAAGTATACATGAC 792
Db 768 GAAAACGAATTTCTCGGGAACAGGAGAGGCTTTACTCTCCCAAGTATACATGAC 827
QY 793 TATGCGGCATGCTCTCTGTGAGGCAAAAGATCAATGATGAACCTATCAGTCTATCATG 852
Db 828 TATGCGGCATGCTCTCTGTGAGGCAAAAGATCAATGATGAACCTATCAGTCTATCATG 887
QY 853 TACATAGTTGTTGTTGATGATATGATTTATGATGTGATTTGAGCCCCCGCATGA 912
Db 888 TACATAGTTGTTGTTGATGATATGATTTATGATGTGATTTGAGCCCCCGCATGA 947
QY 913 ATTAGCATATGCGCGGAGAAAACCTGTCTTAAATGTAAGGAGAACAGAGTCAAT 972
Db 948 ATTAGCATATGCGCGGAGAAAACCTGTCTTAAATGTAAGGAGAACAGAGTCAAC 1007
QY 973 GTGGGGCTTGATTTCACTTGCACTCTCACCTTCAAAAGTCTCATATAGAAGTTGTA 1032
Db 1008 GTGGGGCTTGATTTCACTTGCACTCTCACCTTCTCAAAGCATCAGCAATAGAAGTTGTA 1067
QY 1033 AACCGGATGTGAACCTTTCTCTGGGACTGTGGCAAGATGTTTGTGAGCACTTGACA 1092
Db 1068 AACCGGATGTGAATCCCTTCTCTGGGACTGTGGCAAGATGTTTGTGAGCACTTGACC 1127
QY 1093 ATAGAAGTGTGACCAAGAGTGAACCAAGGGATATCACTGTGTAGCGTCCAGTGAAG 1152
Db 1128 ATAGAAGTGTGACCAAGAGTGAACCAAGGAGATATCACTGTGAACGCTTACAGTGAAG 1187
QY 1153 ATGATCAAGAGAAATAGAACATTTGTCCGAGTTTCACAAAAGCTTTATTTGCTTTCCGT 1212
Db 1188 ATGACCAAGAAATATTAACATTTGTCCGAGTTTCACAAAAGCTTTATTTATGCTTTTGGT 1247
QY 1213 AGTGGAGTGAATCTTTGTGTGAAGCCACAGTGGGCACTCAAGTCCGAATCCCTGTGAAG 1272
Db 1248 AGCGGAGTGAATCTTTGTGTGAAGCCACAGTGGGCAACCAAGTCCGAATCCCTGTGAAG 1307
QY 1273 TATCTCAGTTACCAAGCTCTGATATCAATGTGTACAGAAATGGAAGGCCATGAGTACC 1332
Db 1308 TATCTCAGTTACCAAGCTCTGATATCAATGTGTACAGAAATGGAAGGCCATGAGTACC 1367
QY 1333 AACTACACATATGTTGTGGAGTGAACCTCAACATCATGAGAGTGAAGAGAGATGCA 1392
Db 1368 AATTACACATATGTTGTGGAGTGAACCTCAACATCATGAGAGTGAAGAGAGATGCG 1427
QY 1393 GAAAACATACAGGTATCTCTCAACCAACCCCATTTCAATGAGAAAACAGAGCCACATGCTC 1452

Db 1428 GAAAACATACAGGTATCTCTCAACCAATCCCAATTTCAATGAGAAAACAGAGCCACATGCTC 1487
QY 1453 TCTCTGTTGTAATGTCCCAACCCAGATGGTGAAGAGGCTTGATCTCGCTATGAT 1512
Db 1488 TCTCTGTTGTAATGTTCACCCCAAGTGGTGAAGAGGCTTGATCTCTCTATGAT 1547
QY 1513 TCTTACAGTATGGAACCATATGACATTTGACATGCAACGTCTACAGCCCACTCCCTG 1572
Db 1548 TCTTACAGTATGGAACCATATGACATGCAACGTCTACAGCTATAGCCACCTCCCTG 1607
QY 1573 CACCACTTCCAGTGTACTGCACTGAGAGAACCTGCTCTACAGACCCGGCCAAACA 1632
Db 1608 CACCACTTCCAGTGTACTGCACTGAGAGAACCTGCTCTACAGCCCAAGCCAAACA 1667
QY 1633 AGCCGTATGCTTTGAAGATGAGACAAGTGAAGATTTCCAGGGGGGAAACAAGATC 1692
Db 1668 AACCATATATCTTTGAAGATGAGACAAGTGAAGATTTCCAGGGGGGAAATGAGATC 1727
QY 1693 GAACTCACAAAACCAATATGCTCTGATTTGAAGAAAACAAAACCTTAAGTACGCTG 1752
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QY 1753 GTCATCCAGCTGCCAACGTGTACGCTTTGTAACAATGTGAAGCCATCAACAAGCGGGA 1812
Db 1788 GTCATCCAGCTGCCAACGTGTACGCTTTGTAACAATGTGAAGCCATCAACAAGCGGGA 1847
QY 1813 CGAGAGAGAGGGTCACTCTCTTCCATGTGATCAGGGGCTCTGAATTAATGTCGACACT 1872
Db 1848 CGAGAGAGAGGGTCACTCTCTTCCATGTGATCAGGGGCTCTGAATTAATGTCGACACT 1907
QY 1873 GCTGCCAGCCCACTGACAGAGAGAGTGTCTCCCTGTTGTGCACTGACAGACGAATACG 1932
Db 1908 GCTGCCAGCCCACTGACAGAGAGAGTGTCTTATTTGTGCACTGACAGATAGAAAACAG 1967
QY 1933 TTTGAGAACCTCAAGTGTACAAGTGTGCTCAAGGCCAACATGGTCCAAATAGGCGAA 1992
Db 1968 TTTGAGAACCTCAAGTGTACAAGTGTGCTCAAGGCCAACATGGTCCAAATAGGCGAA 2027
QY 1993 TCACTCACACAGTTTCAAGAACTTGGATGCTCTTTGAAATCGAATGACCAATGTT 2052
Db 2028 TCACTCACACAGTTTCAAGAACTTGGATGCTCTTTGAAATCGAATGACCAATGTT 2087
QY 2053 TCTTAACAGCACAAAATGACATCTTGATTTGTGCAATTTGAGAAATGCTCTGACAGACCA 2112
Db 2088 TCTTAACAGCACAAAATGACATCTTGATTTGTGCAATTTGAGAAATGCTCTGACAGACCA 2147
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Db 2148 GGCACATATGCTCTGCTCAAGACCAAGAAACCAAGAAAACATTTGCTGTGACAA 2207
QY 2173 CAGCTCATATCTCTAGAGCGGATGGACCACTGATCAACCGAAATCTGAGAAATCAGACA 2232
Db 2208 CAGCTCATATCTCTAGAGCGGATGGACCACTGATCACTGAGAAATCTGAGAAATCAGACA 2267
QY 2233 ACAACATTTGGCGAGACCATTTGAAGTGTGCCAGCATCTGAGAAATCTTACCCCAAC 2292
Db 2268 ACAACATTTGGTGAAGACATGAAAGTTGTTGTCAACATCTGAGAAACCTTACCCCTC 2327
QY 2293 ATTACATGTGTTCAAAAGCAACAGAACCTTGTGTAAGATTTACAGCATTTGTACAGAT 2352
Db 2328 ATTACATGTGTTCAAAAGCAATGAGACCTTGTGAAGATTTACAGCATTTGTACAAAGAC 2387
QY 2353 GGGAAACGGAAACCTGATCTCCGAGGGGTGAGAAAGAGATGAGGCTCTTACACCTGC 2412
Db 2388 GGGAAACGGAAACCTTATCTTACAGAGGTGAGAAAGAGATGAGGCTCTTACACCTGC 2447
QY 2413 CAGGCTGCAATGTCTTTGCTGTGCAAGAGCGGAGACGCTCTTCAATATTAAGAGGTGCC 2472
Db 2448 CAGGCTGCAATGTCTTTGCTGTGCAAGAGACGACGCTCTTCAATATTAAGAGGTGCC 2507
QY 2473 CAGGAAAGACCAACTTTGGAAGTATTAATCTCTGTGGCACTGAGAGATTTGCCATGTTCC 2532

OY	3613	ACCATGCTGACCTGCTGGACATGAGAACCCCAACCAAGAACCTTCGTTTTCAAGATTGATG	3612
Db	3648	ACCATGCTGATTGCTGGACATGAGAACCCCAACCAAGAACCCCGTTTTCAAGATTGATG	3707
OY	3673	GAGCATTTGGGAAACCTCCCTGCAAGCAAAATGCGCAGCAGGATGGCAAAAGCTATATTGTT	3732
Db	3708	GAGCATTTGGGAAATCTCTGCAAGCAAAATGCTCAGCAGGATGGCAAAAGCTATATTGTT	3767
OY	3733	CTTCCAAATGTCAGAGACACTGAGCATGAAAGAGAAATTTCTGACTTTCCTGCTCACTCA	3792
Db	3768	CTTCCAAATGTCAGAGACACTGAGCATGAAAGAGAAATTTCTGACTTTCCTGCTCACTCA	3837
OY	3793	CCGTTTTCCGTATGAGAGAAAGAGAAAGTGTGGACCCCAAAATTTCCATTTATGACAAACA	3852
Db	3828	CCGTTTTCCGTATGAGAGAAAGAGAAAGTGTGGACCCCAAAATTTCCATTTATGACAAACA	3887
OY	3853	GCAGGAATCAGTCAATTATCTCCGAACAGTAAACGAAGAGCCGGCCAGTGAAGTAAAA	3912
Db	3888	GCAGGAATCAGTCAATTATCTCCGAACAGAGCGAAAAAGCCGGCCAGTGAAGTAAAA	3947
OY	3913	ACAATTTGAAGATATCCCAATTTGAGAAACGAAGTAAAAAGTATGCCAATGACAGCCAG	3972
Db	3948	ACAATTTGAAGATATCCCTTTGAGAAACGAAGTAAAAAGTATGCCAATGACAGCCAG	4007
OY	3973	ACAGACATGAGGATGTCCTTGATATAGAAAGACTGAAACTCTGGAAACAGGAACAA	4032
Db	4008	ACAGACATGAGGATGTCCTTGATATAGAAAGACTGAAACTCTGGAAACAGGAACAA	4067
OY	4033	TTATCTCACTCTTTTGGTGAATGATGCCACAGTAAAGCAGGAGTCTGTGGCCTCGAA	4092
Db	4068	TTATCTCACTCTTTTGGTGGATGATGCCACAGTAAAGCAGGAGTCTGTGGCCTCGAA	4127
OY	4093	GGCTCCAAACAGAACCAAGTGGCTACACGCTGGGATCACTCAGATGACACAGACACC	4152
Db	4128	GGCTCCAAACAGAACCAAGCGGTACACGCTGGGATCACTCAGACGACACAGATACACC	4187
OY	4153	GGTATCTCCAGGACGAGGCAAGGACGATTTTAAAGTGTGTCTGTGCCGCTCCG	4212
Db	4188	GGTATCTCCAGGACGAGGCAAGGACGATTTTAAAGTGTGTGTCTCAGGCGCAGTTGAC	4247
OY	4213	TCAGGGAACCACTGCGCTCACCTCTCTGTTTAAATGGAAGTGGTCTGTGCCGCTCCG	4272
Db	4248	TCAGGGAACCACTGCGCTCACCTCTCTGTTTAAAGAAAGTGGCCTGTGCCGCTCCG	4307
OY	4273	CCCAACTCTGGAATATCAGAGAGAGTCTGTAGATTTTCAAGTGTGTTCTTTCC	4332
Db	4308	CCCAACTCTCTGGAATATCTCAGAGAGTCTGTAGATTTTCAAGTGTGTTCTTTCC	4367
OY	4333	ACCACCCGGAAGTATGACCAATTGATTTTCAATTTTGGAGAGGACCTCAGACTGCAAG	4392
Db	4368	ACCACCTCGGAAGTATGACCGATTTGATTTTCA--TTTCAGAAAGAGACCTCAGAC--CCAG	4425
OY	4393	GAGCTTGTCTCAGGGAATTTTCAGAGAAAGATGCCATGACCCAAAGATGTGTGACTCT	4452
Db	4426	AAAGCTTGTCTCAGGGAATTTCC--AGAAAAATGCCATGACCCAAAGATGTGTGACTCT	4482
OY	4453	ACTCTCTTTCCATTCATTTAAAGTCTATATATATGTCCTGCTG--TGCTCTCACTAC	4511
Db	4483	ACTCTCTTTCCATTCATTTAAATATCTATATATATGTCCTGCTGCGGGTCTCACTAC	4542
OY	4512	CAGTTAAAGCAAAAGACTTTCAAACAGCTGAGACTGTGTCTCCAGAAAGT-----	4561
Db	4543	CAGTTAAAGCAATMAACGTTCAAGACCGGG--CTCTATCTCCAAAGAAATACCATACC	4601
OY	4562	--GGCAACGGCACTCTGGAACCTGATCGAATGGGC-----ATATGCTTGTGTG	4613
Db	4602	AGGCATATGAGACCTCTGTGAAACCTGATTAATAATGGCGCATGTATGCTTTGTGTG	4661
OY	4614	AGGATGGGTGAGATGTCCCAAGGCGGAGTCTGTCTACCTTGAAGGCTTTGTGAGGATG-	4672
Db	4662	-GGATGGGTGACATGTCCCAAGGCGTGA-----CTTCACTMAAAGGCTTTGTGAGGATGT	4716

OY	4673	GGGCTATGAGCGCAAGTGTAAATGTTGGGATGTGCACTGGGAGGAAAGGAGCGAAG--TC	4731
Db	4717	GGGCTATGAGCGCAAGTGTAAATGTTGAATGTGGCTGTGTAAGAAAGGAGCAAGCTC	4778
OY	4732	GCTCGGAGAGGGTTGGAGCCGTGCAGATGCAATTGCTGTGCTGTGGTGGAGGTGGCTTG	4791
Db	4777	GCTAGAGAGGGGTTGGAGCCGTGCAGAAATGCAATTGTGTGTGGCTGTGTGGAAAGTGA	4836
OY	4792	TGGCTGTTCAGGAAAACGAAAGGCGGCGGCGAGGGTTTGGTTTGGAAAGCTTGGCTGT	4851
Db	4837	TTGCTGTTCAGGAAAACCCCAAGGCGGCTGTGCGGGCTTTGGTTTGGAAAGTTT--GCTTGC	4894
OY	4852	CTTCAACAGTCGGGTTACAGGGGAGTTCCCTGTGGGCTTCCACTCTAAAGAGAGTTCC	4911
Db	4895	TCTCAACGTTGGGCTAC--TGCAATTTCCCTGTGTGCTTTCTCA--CCCTAATCAAAATTC	4951
OY	4912	TTCCGGAATCTTACGTCGTCTCCCTGGCGCTGGCCCGAGAAAGAAATGATGCAAGCTGTCC	4977
Db	4952	GTCCGGAATCTTACGTCGTCTCCCTGGCGCTAGCCCGAGAAAGAAATGACGAGCTTGC---	5008
OY	4972	TTCTCATCTCTCAGGCTGTGTGCTTTAAATTACAGAACCAAAAAGAGAGAAAGCTCGGACGA	5031
Db	5009	-TCTCATCTCCCAAGGCTGTGCTTTAACTAGAAATCTAAAGAGAGGAGACTTTGGCCGA	5067
OY	5032	G-----GTCCTCGAGGGGGCGSAAATTTGGAGAAACAAACAGAACTCAGGGGTTTCMG	5086
Db	5068	GAGTCCGCTCTTGTTCATGCTGAAGAAACGTGAGAAACAAACAGAACTCAGGGGTTTCIG	5122
OY	5087	CTGGGTGGAGAACCAACGTGGCGGCCCTGGTGGAGGTCTGAGGGTCTCTGTCAAGTGG--	5144
Db	5128	CTGGGTGGATACCACTGTGTCTGCCCTGGTGGCAATGTCTAGAGGTTTGTCAATGGGG	5181
OY	5145	-CGGTAAGGCTCAGGCTGG-----TGTCTTCTCTAATCTCACTCTGTGTAG	5197
Db	5188	ACGGTAAGGCTCAGACAGAGATGTATCCCTTGTGTTCTTCTCTCACTCCACTTCTGTCTT	5247
OY	5193	GCC-----CCCAAGTCTCAGATTTTAACTTTGAGCTTGTGGCTCTCCGATGGGAG	5233
Db	5248	GCCACACACCCCCCTCCCAAGTCTCAGATTTTAACTTTGAGCTTGTGTSACAAGATGGGAG	5307
OY	5239	AAAAATCTTAAATTGGTGGTGGTGTCTCCAGAT--AATCACTAGCCAGATTTGAAATTA	5296
Db	5308	AAGGCTTAAATTGGTGTGTTGCTCTCCAGATTAATAATCAGTACAGATTTGAAATTA	5366
OY	5297	CTTTTAAACGAGGTTATGATTAACATCTACTGTATCTTTAGATTTTAACTATTAAC	5356
Db	5368	CTTTTAAACCAAGG--TGTGATTAACATCTACTGTATGTGTGAA--TTTAACTATTAAGC	5426
OY	5357	TATGCTACTGGTTTCTGCTGTGTGCTT	5385
Db	5426	YGDSDCKSRSTKDTTTTTTTTTTTTGGCCCTT	5454

RESULT 2
US-10-995-561-389

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: Sequence 389, Application US/10995561
: Publication No. US20050272054A1
:
: GENERAL INFORMATION:
:
: APPLICANT: CARGILL, Michele et al.
:
: TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
:
: TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
:
: TITLE OF INVENTION: DETECTION AND USES THEREOF
:
: FILE REFERENCE: CL001559
:
: CURRENT APPLICATION NUMBER: US/10/995,561
:
: CURRENT FILING DATE: 2004-11-24
:
: NUMBER OF SEQ ID NOS: 85702
:
: SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 389
; LENGTH: 5832
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-389

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Query Match	62.4%	Score 3365;	DB 7;	Length 5832;
Best Local Similarity	78.7%	Pred. No. 0;		
Matches 4327;	Conservative 13;	Mismatches 1003;	Indels 158;	Gaps 21;

QY	14	CCGATTAACCTGAGCTGAGCCGATTCCTCGGACACCGCTGACGCGCGCTGAGCCAGGG	73
Db	104	CTGGAATATCTCTCTCTACCGGACACCGCAGACGCGCTTGACGCGCGGTGCGCGCCAGGG	163
QY	74	CGCCGGTCCCGGCGCTCTCCCGGCTTTGCGCTGCGGGGGCC-----ATAACGCTCTG	128
Db	164	CTCCCTAGCCCTGTGCGCTCAACGTCTCTCGCTGCGGGGTCGCGAGATTTCACCTCCG	223
QY	129	TGACTTTCTTTGGGGGCGAGGACGGAAGAGAGCTGTGCTGTGAGAACTGGGCTCTGTG	188
Db	224	CGCTCTCTTCTCTTAGAAGCGCGCTGGGAGAAAGAACCGGCTCCCGAATTCTGGGCAATTC	283
QY	189	CCGAGGCGGAGGTGAGATGAGAGACAAAGCGCTGTAAGCTGTGCGCTCTGTGCTGTG	248
Db	284	GCCCGGCTCGAGGTGCAAGATGCAAGAGTGCTGCTGGCCGCTCCCTGTGTGCTGTG	343
QY	249	CGTGGAGAACCGGAGCGGCTCTGTGGGTTTGACTGGGGAATTTTGTCCATCCCGCCAAAGCT	308
Db	344	CGTGGAGAACCGGAGCGGCTCTGTGGGTTTGTAGTGTCTCTTTGATCTGGCCAGGCT	403
QY	309	CAGACACAGAAAGACATCTGACAAATTTTGGCAATATACAAACCTTCCAGATTACTTGAG	368
Db	404	CAGCATACAAAAAAGACATCTTACAAATTAAGGCTAATATACAACTTCCAAATTACTTGAG	463
QY	369	GGGACACGGGACCTGGACTGGCTTTGGGCCCAAGCTCAAGGTGATTTCTGAGGAAAGGT	428
Db	464	GGGACAGAGGACTTGAACCTGGCTTTGGGCCCAATTAAGGTGAGGTGCAAGGTGCAAGGT	523
QY	429	ATTGTGACTGAATGCGGCGGTGTGTGACAGTATCTTGTGCAAAACACTCAACATTTCCAG	488
Db	524	GGAAGTACAGTGTGAGCGCATG-----GCGCTTCTGTATAGCACTCAACAAATTTCCAA	577
QY	489	GGTGGTTGGAATATATCTGGAGCTTCAAGGTCTCGTACCGGAGCGTCCGACATAGGCTC	548
Db	578	AGTATGCGAAATATACACTGGAGCTTCAAGGTCTTACCGGAGAACTGACTTGGGCTC	637
QY	549	CACGTTTATGTCTATGTTGGAATTAAGATTCACATTCACATTCGCTCTGCACTGACCA	608
Db	638	GGTATTTATGTCTATGTTCAAGTTTCAAGTTCACATTCATTTATGCTCTGTGTATGTACCA	697
QY	609	GCATGGACGTGTACTACACCGAGAACAGAACAAACTGTGTGATCCCTGCGAGG	668
Db	698	ACATGGAGCTGTATACCTTACTGAGAACAAACAAACCTGTGTGATTCATGTCTCCG	757
QY	669	GTGCATTTCAAACTCCATGTGTCTTTGGCGTAGGAATCCAAAGAAAGATTTGTTCC	728
Db	758	GTCCATTTCAATCTCAACGTGTACTTTGTGCAAGATACCCAGAAAGAGATTTGTTCC	817
QY	729	GGATGGAACAGAAATTTCTGGGACAGCGAGATAGGCTTTACTCTCCCGAGTTACATGAT	788
Db	818	TGATGTATACAGAAATTTCTGGGACAGCAAGAGGGCTTACTATTTCCAGCTACATGAT	877
QY	789	CAGCTATGCCGGACGTCTTCTGTGAGCAAAAGATCAATGATGAATACCTATCACTGTAT	848
Db	878	CAGCTATGCCGGACGTCTTCTGTGAGCAAAATTAATGATGAATTAACCACTGTAT	937
QY	849	CATGTACATAGTGTGTTGATGAGATATAGAAATTAATGATGTGATTTGAGCCCGCAGCA	908
Db	938	TATGTACATAGTGTGTGTGTAGGATATAGAAATTAATGATGTGATTTGAGTCCGTCTCA	997
QY	909	TGAATTTGAGTATCTGCCGGAAGAAAATTTGTCTTAAATTTGTACAGCGAGAACAGAGCT	968
Db	998	TGGAATTTGAGTATCTGTGTGAGAAAAGCTTGTCTTAAATTTGTACAGCAAACTGAACCT	1057
QY	969	CAATGTGGGGCTTAATTTCACTTGGACACTTCCACCTTCAAAAGTCACTCATTAAGAAAT	1028
Db	1058	AAATGTGGGGATTACCTTCAACTGGGAATACCTCTTTCCAAAGCATCAGCATTAAGAAAT	1117
QY	1029	TGTAAACCGGAGTGTGAACCCCTTTCTGTGGACTGTGGCAAGATGTTTTTGTAGCACTT	1088

1118 TGTAAACCGAGACCTTAAACCAGTCTGGAGTGAAGAAATTTTGGACCTT 1177
1089 GACATATGAAAGTGTACCAAGGTGACCAAGGGGAATACCTGTGTAGCGTCCAGTG 1148
1178 AACTATATGATGTGTAAACCGAGTGAACAAAGATTTGACCTGTGACATCCAGTG 1237
1149 ACGATGATCAAGAAATATGAACATTTGTCCAGTTTCAACAACCCCTTTATTCCTT 1208
1238 GCTGATGACCAAGAAACAGACATTTGTCAAGGTTCATGAAACCTTTGTTCCTT 1297
1209 CGGTATGGAGTGAATCTTTGGTGAAGCCACAGTGGGAGTCAAGTCCGATCCCTGT 1268
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1358 GAAATATCTTGTGTACCAACCCCAAGAAATAAATGTGTATAAATATGGAATCCCTTGA 1417
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4530 TTCAACACGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4589
4589 ----- 4588
4530 GAATGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4649
4589 -----AGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4635
4650 CTTTGAAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4708
4636 TCCAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4695
4709 TGGGAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4763
4636 TGAATGAAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4755
4764 TGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4823
4756 TGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4815
4834 GGGTTTGGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4883
4816 GGGTTTGGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4875
4884 GGGTTTGGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4943
4876 GCTGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4935
4944 CCAGAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 5003

4936 CCAGAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 4993
5004 AACACCAAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 5061
4994 AATACCAAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 5053
5062 ACAGAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 5104
5054 GACACCAAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 5096

RESULT 4

US-11-116-698-2
; Sequence 2, Application US/11116698
; Publication No. US20050281861A1
; GENERAL INFORMATION:
; APPLICANT: Allergan, Inc.
; APPLICANT: Hughes, Patrick
; APPLICANT: Malone, Tom
; APPLICANT: Devries, Gerald
; APPLICANT: Edman, Jeffrey
; APPLICANT: Blanda, Wendy
; APPLICANT: Baciu, Peter
; APPLICANT: Whicup, Scott
; TITLE OF INVENTION: MACROBULE-CONTAINING SUSTAINED RELEASE INTRAOCULAR IMPLANTS
; TITLE OF INVENTION: AND RELATED METHODS
; FILE REFERENCE: D3157
; CURRENT APPLICATION NUMBER: US/11/116,698
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/567,423
; PRIOR FILING DATE: 2004-04-30
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patencin version 3.3
; SEQ ID NO 2
; LENGTH: 4071
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-116-698-2

Query Match 56.2%; Score 3027.8; DB 8; Length 4071;

Best Local Similarity 85.1%; Pred. No. 0;

Matches 3415; Conservative 0; Mismatches 582; Indels 18; Gaps 2;

208 ATGAGAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 267
1 ATGAGAGAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 60
268 TGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 327
61 TGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 120
328 CTGACAAATTTGGCAATTAACACCTTCAGATTTTGAAGAGGAGAGAGAGAGTGTGAGT 387
121 CTGACAAATTTGGCAATTAACACCTTCAGATTTTGAAGAGGAGAGAGAGTGTGAGT 180
388 TGGCTTTGGCCCAATGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 447
181 TGGCTTTGGCCCAATGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 240
448 GGTGTGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 507
241 GATG-----GCTTCTGTAAGACATCAACATTTCCAAAGATGCGAATGACAT 294
508 GAGGCTCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 567
295 GAGGCTCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 354
568 CGAGATTAAGATTAACATTTATGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 627
355 CAAGATTAAGATTAACATTTATGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 414

Qy 628 ACCGAGAACAGAACTGTGTGATGCCCTGCCAGGGTCGATTTCAAACTCAAT 687
Db 415 ACTGGAAACAAAACCTGTGGTGAATTCATGTCGGGTCCATTTCAAAATCTCAAC 474
Qy 688 GTGTCTCTTTCCGTAGGTATCCNAGAAAGATTTGTTCGGGATGGAACGAATTTCC 747
Db 475 GTGTCACTTTGTGCAAGATACCCAGAAAAGATTTGTTCGATGATGACGAATTTCC 534
Qy 748 TGGGACACGAGATAGGCTTTACTCTCCAGTTACATGATCAGTATGCCGACATGTC 807
Db 535 TGGGACACGAGAGGGCTTTACTCTTCAGCTACATGATCAGTATGCCGACATGTC 594
Qy 808 TTCTGTAGGCAAGATCAATGATGAAACTATACGCTATATCATATGATGATGTT 867
Db 595 TTCTGTAGGCAAAATTAATGATGAAAATTAACGCTATATATGATGATGTTGCT 654
Qy 868 GTAGGATATAGGATTTATGATGATTTGTGAGCCCCCGGACATGAAATGACGTATC 927
Db 655 GTAGGATATAGGATTTATGATGATGTTGTGAGTCCGTTCATGGAATTAATCTGTT 714
Qy 928 GGAGAAAACCTGTCTTAATTTGTACAGCAGAAACAGAGCTCAATGTGGGCTTGATTC 987
Db 715 GGAGAAAACCTGTCTTAATTTGTACAGCAGAAACAGAGCTCAATGTGGGATTTGACTTC 774
Qy 988 ACTGGAACCTCTCACTTCAAAAGTCTCATCAATAAGAAATTTGAACCGGAGATGAAA 1047
Db 775 AACTGGGAATACCTTCTTCAAGACATCAGCATTAAGAACTTGTAAACCGAACCTTAAA 834
Qy 1048 CCTTTTCTGGGACGTGAGCGAAGATGTTTTGTGAGACCTTGACAAATGAAAGTGAAC 1107
Db 835 ACCGAGTGTGGAGAGATGAAGAAATTTGTGAGACCTTAACTATAGATGATGTAACC 894
Qy 1108 AAGAGTGAACGAAGGGAATAACCTGTGTAGCGTCCAGTGAACGAGATCAAGAAAT 1167
Db 895 CGGAGTGAACGAAGATTTGTACACCTGTGACAGATCCAGTGGGTGATGACCAAGAAAC 954
Qy 1168 AGAACTTTGTCCAGTTCAACAAGCCCTTTATGCTTTGTGGATGAGGATGAATCT 1227
Db 955 AGCAATTTGTCAAGGTTCATGAAAACCTTTGTGCTTTGTGGAAGTGGATGGAATCT 1014
Qy 1228 TTGATGAAGCACAGTGGGAGTCAAGTCCGAATCCCTGTGAAGTATCTAGTTAACCA 1287
Db 1015 CTGTGGAAGCCAGTGGGAGCGTCCAGAACTCCCTGCAAGTATCTTGTTATCCCA 1074
Qy 1288 GCTCTGTATCAATGTGTACAGAAATGGAAGCCCATTTGAGTCCCACTACATGATTT 1347
Db 1075 CCCCCAGAAATTAATGATTAATAATGGAATACCCCTTGAGTCCCACTACATTAATAA 1134
Qy 1348 GTTGGCAGTGAATCACTCATATGGAAGTGACTGAAAAGATGCAAGAACTTACAGGTC 1407
Db 1135 GCGGGGCAATGTACGATTTATGGAAGTGAAGACACAGAAATTTACACTGTTC 1194
Qy 1408 ATCTCAACCAACCCCATTTGAATGAGAAACAGAGCCCATGTGCTCTCTGTGTGAT 1467
Db 1195 ATCTTACCAATCCCATTTCAAGAGAGAGAGAGCCATGTGTCTCTCTGTGTGTAT 1254
Qy 1468 GTTCCACCCAGATCGGTGAGAAAGCTTGTATCTCGCTTATGATTTCTTACAGATGAG 1527
Db 1255 GTTCCACCCAGATTTGTGAGAAATCTTATCTCTCTGTGTGATTTCTTACAGATGAG 1314
Qy 1528 ACATGACAGATGATGACATGACAGCTTACGCAACCTTCCCTGACACCATCCAGTGG 1587
Db 1315 ACCACTCAAAAGCTGACATGTACGCTTATGCTCAATCTCTCCCGCATCATCTCAGTGG 1374
Qy 1588 TACTGGCAGCTGAAGAAAGCCGTCTTACAGACCCCGGCAA-----ACAAGC 1635
Db 1375 TATTGGCAGTTGAGAGAAAGTGGCCCAACAGCCCAAGCCTGTCTCACTGCAAAAC 1434
Qy 1636 CCGTATGCTTTGAAGATGAGACACGTGAGGATTTTCAAGGGGGAACAAGATCGAA 1695
Db 1435 CCAATACCTTGTGAAGATGAGAAAGTGTGAGAGCTTCCAGGAGGAAATTAATTTGAA 1494
Qy 1696 GTCAACAAAACCAATATGCTCCTGATTTGAAGAAAAACAACCTTAAGTACGCTGTC 1755

Db 1495 GTTATATAAATCAATTTGTCTTAATGAGAAAAACAACCTTAAGTACCTTTCTT 1554
Qy 1756 ATCAAGTCGCAACGTTGACGTTGTACAAATGTGAAGCATCAACAAAGCGGAGAGA 1815
Db 1555 ATCCAAAGGGAATGTGTACGCTTTGTACAAATGTGAAGGCTTCACAAAGTCGGAGGA 1614
Qy 1816 GGAAGAGGGTCATCTCTTCCATGATGATCAGGGGCTCTGAAATTAATGTGTCAACTGCT 1875
Db 1615 GGAAGAGGGGATCTCTCTTCCATGATGATGATGATGATGATGATGATGATGATGATG 1674
Qy 1876 GCCCAGCCCACTGACGAGAGAGTGTCTCTCTGTTGTGACATGCAAGACAAATACGTTT 1935
Db 1675 ATGACGGCCACTGACGAGAGAGGCTGTCTTTGTGTGTGATGATGATGATGATGATG 1734
Qy 1936 GAGAACTCAACGTTGCAAGCTTGGCTCAAGGCAACATGATGATGATGATGATGATG 1995
Db 1735 GAGAACTCAACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1794
Qy 1996 CTCAACCAAGTTTGAAGAACTTGAATGCTTTTGAAGAACTGAATGACCATGTTTCT 2055
Db 1795 CCAACACCTGTTTGAAGAACTTGAATGCTTTTGAAGAACTGAATGACCATGTTTCT 1854
Qy 2056 AACGCAACAAATGACATCTTGTGATTTGTGACATTTGAAATGCTCTTGTGACAGCAAGGC 2115
Db 1855 AATGACCAAAATGACATTTGTGATGATGATGATGATGATGATGATGATGATGATG 1914
Qy 2116 GACTATGTTTGTCTGTGCAAGATTAAGAGCAAGAAAGCAACGTTGCTGTGCAACAG 2175
Db 1915 GACTATGTTTGTCTGTGCAAGATTAAGAGCAAGAAAGCAACGTTGCTGTGCAACAG 1974
Qy 2176 CTCAATCTCTAGAGCCATGACCCATGATCAACCGAAATCTGAGAAATCAACAA 2235
Db 1975 CTCAATCTCTAGAGCCATGACCCATGATCAACCGAAATCTGAGAAATCAACAA 2034
Qy 2236 ACATTTGGCGAGACATTTGAAGTGAATCTTGTGCAATCTTGAATCTTGAATCTTGA 2295
Db 2035 AGTATTTGGGAAAGCATGAAAGTCTATGACACGGCATCTGGAATCCCTTCCACAGTTC 2094
Qy 2296 ACATGTTTCAAAAGCAACGAGAACCTGTGTGAAGATTCAGGATCTGAGATGAG 2355
Db 2095 ATGTGTTTAAAGTAAATGAGAACCTTGTGAAGATCTGAGATCTGAGATGAG 2154
Qy 2356 AACCGAAACCTGACTATCTCGAGGGTGAAGAGAGATGAGAGCTCTTACACCTGCCAG 2415
Db 2155 AACCGAAACCTGACTATCTCGAGGGTGAAGAGAGATGAGAGCTCTTACACCTGCCAG 2214
Qy 2416 GCTGTCAATGTCTTGTGCTGTGCAAGAGCGGACGCTCTTCAATTAATGAAGTGTCCAG 2475
Db 2215 GCATGAGTGTCTTGTGCTGTGCAAGAGCGGACGCTCTTCAATTAATGAAGTGTCCAG 2274
Qy 2476 GAAAGACCAACTGGAAGTCAATATCTGTGTGCACTGAGATGATGATGATGATGATG 2535
Db 2275 GAAAGACCAACTGGAAGTCAATATCTGTGTGCACTGAGATGATGATGATGATGATG 2334
Qy 2536 TGGCTCTTCTTGTATTTGTCTTACGAGCCGTTAAGCGGGCAATGAAGGGGAACTGAAG 2595
Db 2335 TGGCTCTTCTTGTATTTGTCTTACGAGCCGTTAAGCGGGCAATGAAGGGGAACTGAAG 2394
Qy 2596 ACAGGCTAATTTGTATTTGTATGATGATGATGATGATGATGATGATGATGATGATG 2655
Db 2395 ACAGGCTAATTTGTATTTGTATGATGATGATGATGATGATGATGATGATGATGATG 2454
Qy 2656 CGCTTGTCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2715
Db 2455 CGACTGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2514
Qy 2716 CTTCTTGTGCGCGGTGCTTGTGCGCAAGTATGAGGACAGCGCTTTTGAATTTGACAA 2775
Db 2515 CTTCTTGTGCGCGGTGCTTGTGCGCAAGTATGAGGACAGCGCTTTTGAATTTGACAA 2574
Qy 2776 ACAGGCTTGTGCAAAAGATGATGATGATGATGATGATGATGATGATGATGATGATG 2835

Db 2575 ACAGCACTTGCAGGACGATGACGTCMAAATGTTGAAGAGAGCAACACAGCTGAG 2634
Qy 2836 CATCGAGCCCTGATGTCTGAATCAAGATCTTCATCCATGGTGCACCATCTCAATGTC 2895
Db 2635 CATCGAGCTCTCATGTCTGAATCAAGATCTTCATCCATGGTGCACCATCTCAATGTC 2694
Qy 2896 GTGAACCTCTTGGCCCTTGCACCAAGCCGGAGGGCCCTTCATGGTGAATTGTGAATTC 2955
Db 2695 GTCAACCTTCTAGTGTCTGTACCAAGCCAGGAGGCCACTCATGTGTGATTGTGAATTC 2754
Qy 2956 TGCAGTTTGAAGAACCTATCACTTACTTAACGGGGAGAGAAATGAAATTTGTCCTTAT 3015
Db 2755 TGCAGTTTGAAGAACCTGTCACTTACTTGAAGAGAGAGAAATGAAATTTGTCCTTAC 2814
Qy 3016 AAGAGCAAGGGGAGCAGCTTCCGCGCAGGGCAAGAGACTAGTTGGGGAGCTTCCGTGAT 3075
Db 2815 AAGAGCAAGGGGAGCAGATTCCTGTCAAGGGAAAGACTAGTTGGAGCAATTCCTGTGAT 2874
Qy 3076 CTGAAGAAAGCGTTGGACAGCATCACAGCAGCCAGAGCTTGGCAGCTCAGGCTTTGTT 3135
Db 2875 CTGAAGAAAGCGCTTGGACAGCATCACAGCAGCCAGAGCTCAGCCAGCTCTGGATTGTC 2934
Qy 3136 GAGGAGAAATCGCTGAGTATGTAGAGAGAGAAAGACTTTCGAGAACTGTATCAAGAGC 3195
Db 2935 GAGGAGAAATCGCTGAGTATGTAGAGAGAGAAAGACTTTCGAGAACTGTATCAAGAGC 2994
Qy 3196 TTCTGACCTTGGAGCATCTCATCTGTATCAGCTTCCAGTGGGCTTAAGGGAGTTC 3255
Db 2995 TTCTGACCTTGGAGCATCTCATCTGTATCAGCTTCCAGTGGGCTTAAGGGAGTTC 3054
Qy 3256 TTGGCATCAAGAGAGTATCCACAGAGGACTTGGAGCAGAGCAAGCAATTCCTCATCGAG 3315
Db 3055 TTGGCATCGCGAAGTATCCACAGAGGACTTGGAGGAGCAAGCAATTCCTCATCGAG 3114
Qy 3316 AAGAGTGTGTAAATCTGTGATCTTGGCTTGGCCCGGAGCAATTTAAACCCGAT 3375
Db 3115 AAGAGTGTGTAAATCTGTGATCTTGGCTTGGCCCGGAGCAATTTAAACCCGAT 3174
Qy 3376 TATGTCAAGAAAGAGATGCGGAGCTCCCTTGAAGTGAAGCCCGGAAACCATTTT 3435
Db 3175 TATGTCAAGAAAGAGATGCTGCTCCCTTGAAGTGAAGCCCGGAAACCATTTT 3234
Qy 3436 GACAGAGTATACAAATTCAGAGCGATGTGTCTTGGTGTGTGCTTGGAGAAAT 3495
Db 3235 GACAGAGTATACAAATTCAGAGCGATGTGTCTTGGTGTGTGCTTGGAGAAAT 3294
Qy 3496 TTTTCTTAAAGTGTCTCCCATACCTTGGGGTCAAGATTGAAGAAATTTGTGAGAG 3555
Db 3295 TTTTCTTAAAGTGTCTCCCATACCTTGGGGTAAAGATTGAAGAAATTTGTGAGCG 3354
Qy 3556 TTGAAGAGAGAGAAATGCGGGCTCTGACTCACTACCCCGAATGTATCAAGAGC 3615
Db 3355 TTGAAGAGAGAGAAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGC 3414
Qy 3616 ATGCTGAGCTGTGAG 3675
Db 3415 ATGCTGAGCTGTGAG 3474
Qy 3676 CATTTGGAGAACTTCTGCAAGCAATGCGAGCAGAGTGGCAAGAGACTATATTGTTCT 3735
Db 3475 CATTTGGAGAACTTCTGCAAGCTAATGCTCAGAGAGTGGCAAGAGACTATATTGTTCT 3534
Qy 3736 CCAATGTGAG 3795
Db 3535 CCGATATAG 3594
Qy 3796 GTTTCCTGTATGAG 3855
Db 3595 GTTTCCTGTATGAG 3654
Qy 3856 GGAATCACTATATCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3915
Db 3655 GGAATCACTATATCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3714

Qy 3916 TTTGAAGATATCCATTGGAGAGACAGAAAGTAAAGTATCCAGATGACAGCCAGACA 3975
Db 3715 TTTGAAGATATCCATTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3774
Qy 3976 GACAGTGGAGTGTCTTGGCATCAGAAAGCTGAAAACCTCTGAAGACAGAGAAATTA 4035
Db 3775 GACAGTGGATGTGTCTTGGCATCAGAAAGCTGAAAACCTTGTGAAGACAGAGAAATTA 3834
Qy 4036 TCTCCATCTTTTGGTGGAGATGTATGCCCATTAACAGAGGAGATCTGTGCTCGAAGGC 4095
Db 3835 TCTCCATCTTTTGGTGGAGATGTATGCCCATTAACAGAGGAGATCTGTGCACTGAAAGGC 3894
Qy 4096 TCCAAACAGACAGAGGCTTACAGAGCTGAGTATCACTAGATGACACAGACCAAGCCGTG 4155
Db 3895 TCCAAACAGACAGAGGCTTACAGAGCTGAGTATCACTCCAGATGACACAGACCAAGCCGTG 3954
Qy 4156 TACTCCAGCGACAGAGCAGAGACTTTTAAAGATGTGATGTGCAATTACGCTG 4210
Db 3955 TACTCCAGTGAAG 4009

RESULT 5
US-10-995-561-388
; Sequence 388, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CLO01559
; CURRENT APPLICATION NUMBER: US/10/995,561
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 388
; LENGTH: 5050
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-388

Query Match 53.9%; Score 2907.4; DB 7; Length 5050;
Best Local Similarity 75.9%; Pred. No. 0;
Matches 3306; Conservative 12; Mismatches 873; Indels 352; Gaps 13;
Qy 14 CCGAGTAACTTGGCTGACCCGATTCGCGGAGACACCGCTGACGCGCGCTGAGCCAGAG 73
Db 104 CTGATATCTCTCTCTTACCGGACCCGAGACGCGCTGACGCGCGCGCTGAGCCAGAG 163
Qy 74 CGCGAGTCCCGCGCTCTCCCGGCTTGGCGCTGCGGGGGCC-----ATACCGCTCTG 128
Db 164 CTCCTTACCCCTGTGCGCTCAACTGTCTGCGCTGCGGGGCTGCGCGAGTTCACCTCG 223
Qy 129 TGACTTCTTTCGCGGCGAGGACCGAGAGAGAGAGTGTGCTGAGAACTGCGGCTGTG 188
Db 224 CGCTCTCTTCTTACACAGCGCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 283
Qy 189 CCGAGCGAGAGTGCAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 248
Db 284 GCCCGGCTCGAGGTCAG 343
Qy 249 CGTGAAGCCCGAGCGCTCTGTGGGTTTGACTGGCGATTTTCTCAATCCGCCAAGCT 308
Db 344 CGTGAAGCCCGAGCGCGCTCTGTGGGTTTCTCAAGTGTCTTGAATCTGCGCAGGCT 403
Qy 309 CAGACAGAGAAAGCATACTGACAAATTTGGCAAAATGCAACCCCTGAGTTTACTTGGAG 368
Db 404 CAGCATACAAAAGAGCATACTTACATTAAGGCTTAATCAACTCTTCAAAATTACTTGGAG 463
Qy 369 GGGACAGCGGAGCTGAGCTGGCTTTGGCCCAATGCTCAGCGTGAATTTGAGAGAGAGGT 428
Db 464 GGGACAGAGGAGCTTGGAGCTGGCTTTGGCCCAATTAAGAGAGAGAGAGAGAGAGAGGT 523

429 ATTGGTACTGAATGCGCGCGGTGGTGAACGATCTTTCTGCAAAAACCTACCAATTCCTCCAG 488

Db 524 GGAGGTGACTGAGTGCAGCGGATG-----GCCCTCTCTGTAAAGACCTACAATTCCTCAA 577

Qy 489 GGTGGTTGGAAATNGATCTACCTGGAGGCCCTACAAAGTCTGTGACCGGGAGGTGACATACCTC 548

Db 578 ATGTGATCGGAAATGACACTGAGACCTACAAAGTCTCTACCGGGAAACTGACTTGGCTTC 637

Qy 549 CACTGTTATGCTCTATGTTGAGATTACGATTCACCATTCATTCGCTCTGTCACTGACCA 608

Db 638 GGTCAATTATGCTATGTTCAAGATTACAGATCCATTATATGCTTCTGTATGTACCA 697

Qy 609 GCATGGCATCTGTGTACATCACCGAACAAGAAACAAACCTGTGTGATCCCTCCGAGG 668

Db 698 ACATGAGAGTGGTGACATTACTGAGAACAAACAAACCTGTGTATTCATGTCCTGG 757

Qy 669 GTCGATTTTCAAACTCAATGTGCTCTTTGGCGTACGATTCGAGAAAGAGATTTGTTCC 728

Db 758 GTCCATTTTCAAACTTCACAGTGTCACTTTGTGCAACATACCCGAGAAAGAGATTTGTTCC 817

Qy 729 GGATGGAAAACAGATTTCTTGAGACAGCAGATAGGCTTTACTCTCCCGAGTTACATGAT 788

Db 818 TGATGTATACAGATTTCTTGAGACAGCAAGAAAGGCTTTACTATTCCTCGACTACATGAT 877

Qy 789 CAGCTATGCCCGCATGTGCTCTCTGTAGAGCAAAAGATCAATGATGAACCTATACGTCTAT 848

Db 878 CAGCTATGCTGGCATGTGCTCTCTGTAGAACAAACAAATTAAGAAAGTTACACAGTCTAT 937

Qy 849 CATGTACATAGTTGTGCTGTGTAGATATAGATTTATGATGTGATCTTCGAGCCCCCGCA 908

Db 938 TATGTACATAGTTGTGCTGTGTAGAGGATATAGATTTATGATGTGCTTCGAGTCCGCTCA 997

Qy 909 TGAATTTGAGCTATCTGCGGAGAGAAAACCTGTCTTAAATTGTACAGCAGAAACAGAGCT 968

Db 998 TGGAATTGAACTATCTGTTGGAGAAAAGCTGTCTTAAATTGTACAGCAAGAACTGAAC 105

Qy 969 CAATGTGGGGCTTGATTTCACTCGGACCTCTCCACTTCAMAAGTCTCATCATTAAGAAAT 102

Db 1058 AAATGTGGGATGTGACTTCAACTGGGAATACCTCTTGGAACATCAGATTAAGAACT 111

Qy 1029 TGTAAACCGGAGATGTGAACCCCTTCTCTGGGACGTGTGGCGAAGATGTTTTTGACACTT 108

Db 1118 TGTAAACCGAGACTTAAACCCAGCTGTGGAGTGAATGAAATTTTGTAGCACTT 117

Qy 1089 GACAAATAGAAAGTGTGACCAAGATGACCAAGGGGAATACACTGTGTAGCCGTCAAGTG 114

Db 1178 AACTATAGATGTGTRTAAACCGAGATGACCAAGATTGTACACTGTGACAGCATCCAGTGG 123

Qy 1149 ACGGATGATCAAGAGAAATAGAAACATTTGTCCGAGTTACACAAACCTTTATTTGCTTT 120

Db 1238 GCTGATGACCAAGAAAGACGACATTTGTACGGGTGCTATGAAAACCTTTGTGTCTTT 129

Qy 1209 CGGTAGTGGAGTGAATCTTTGGTGGAAACCAAGTGGGACAGTCAAGTCCGATCCCTGT 126

Db 1298 TGGAAATGCGCATGGAATCTCTGTGTGAAGTCAAGTGTGGGGAGCGTCAAAATCCCTGCG 135

Qy 1269 GAAATATCTCACTTACCAGCTCTCTGATATCAATGTGTACAGAAATGAAGGCGCATTTGA 132

Db 1358 GAAATATCTTGGTTACCCACCCCAAGAAATTAATAATGTATTAATAATGGAATACCCCTTGA 141

Qy 1329 GTCCAACTTACAAATGATTTGTTGGCGATGATCTACACATCATGGAAGTGAATGAAAGAGA 138

Db 1418 GTCCAACTTACAAATTTAAAGCGGGGATGTACTGAGATTTATGGAAGTGAAGAAAGAA 147

Qy 1389 TGCAGAAATCTACAGGATCATCTCTCAACCAACCTTTCAATGGAAGAAACAGAGCCACAT 144

Db 1478 CACAGGAATTTACACGTGTACTCTTACCAATCCCATTTCAAAGGAAAGACAGAGCATGT 153

Qy 1449 GGTCTCTCTGTTGTGAATGTCCCAACCCAGATCGGTGAAGAAAGCTTGAATCTTGCTTAT 150

Db 1538 GGTCTCTCTGTTGTGTATGTCCCAACCCAGATGGTGAAGAAATCTTATATCTCTCTGT 159

OY	1509	GGATTTCCTCAACGATNTGGAGCCATGCGAGACATTTGACATGTCACATCTACACGGCAACCCCTCC	1508
Db	1598	GGATTTCCTCAACGATNTGGAGCCATCTCAACGCTGACATGACGGTCTATGCTCATTTCTCTCC	1657
OY	1569	CCTGCACACATCTCAGTGTACTGGCAGCTGTGAAGAAAGCCGTCTCTTACACACCCGGGCA	1628
Db	1658	CCGCGATTCACATCCACTGTGTATTTGGCAGTTTGAGAGAAAGTGGCCCAACGAGCCCAAGCA	1717
OY	1629	A-----ACAAAGCCCGTATGCTTGTAAAGAAATGAGACACGTGAGATTTCCA	1676
Db	1718	WGCTGTCTCAGTGCACAAACCCATCTCCCTGTGGAAGAAATGAGAAATGTGGAGAGACTTCC	1777
OY	1677	GGGGGAAAACAAAGATCCAAAGTCAACAAAACCAATATGCCCCGTGATTTGAAGAAAAACAA	1736
Db	1778	GGGAGAAATTAATTAAGTATTAATTAATAATTCCTTAATTAAGAGAAAAAACAA	1837
OY	1737	AACGTAAAGTACGCTGGGTCACTCAAGCTGCGCAACGTGTCAAGCTTTGTATCAATGTGAAGC	1796
Db	1838	AACGTAAAGTACCTTTGTATCCAAAGGGGCAAAATGTGTACCTTTGTACAAATGTGAAGC	1897
OY	1797	CATCAACAAAGCGGGAACGAGGAGAGAGGGTCATCTCCTTCATGTGATCAGGGGCTCTGA	1856
Db	1898	GGTCAACAAAGATCGGAGAGAGGAGAGGGTGTATCTCTTCCACGTGACCAAGGGGCTCTGA	1957
OY	1857	AATTACTGTGTAACTCTGCTGCCCCAGCCCACTGACACAGAGAGGTGTGCCCTGTGTGTGAC	1916
Db	1958	AATTACTTTGGCAACCTTACATGACGCCCACTGACAGAGAGGCGTGTCTTTGTGTGTGAC	2017
OY	1917	TGCAGACAGAAATACGTTTGAAGACCTCAAGTGTACAGCTTGGGCTCACAGGCAACATC	1976
Db	2018	TGCAGACAGATCTACGTTTGAAGACCTTCACTGATACGTGTACAGCTTGGCCCAAGCCTTGTCC	2077
OY	1977	GGTCACATGGGCGAATCACTCACACCAAGTTTGCAGAACTTGTGATGCTCTTTGAAACT	2036
Db	2078	AATCACTGTGGAGATGTGCCCAACACCGTTTGCAGAACTTGTGATACCTCTTGGAAATT	2137
OY	2037	GAATGGCAACCATGTTTCTTAAACAGACAAATGACATCTTGAATGTGTGGCATTTCAAGATGC	2096
Db	2138	GAATGGCAACCATGTTCTCTAATAGCAAAATGACATTTTGAATGTGTGAGCTTAAAGAAATGC	2197
OY	2097	CTCTCTCAGAGAACCAAGGCACTATGTTGTCTGCTCAAGATTAAGAAACCAAGAAAG	2156
Db	2198	ATCTCTTGAGAGAACCAAGAGACTATGTCGTGCTTGTCTCAAGACAGAAAGACCAAGAAAG	2257
OY	2157	ACATTGCTGGGTCAAAAGCTCATCATCTTAAGACGATGGCACCCATGATCAACGGGAAA	2216
Db	2258	ACATTGCTGGGTCAAGGACGTCACAGTCCTAAGACGTGTGGCACCCAGATCAAGAGAAA	2317
OY	2217	TCTGAGAGATCAGACAAACCATTTGCGAGAACCATTTGAAGTGACTTGGCCAGCATCTGG	2276
Db	2318	CCTGGAAGATCAGACGAAAGTATTTGGGGAAGACATGAAAGTCTCATGCAAGGCGATCTGG	2377
OY	2277	AAATTCCTAACCCCAACATTTACATGTTCTCAAAAGACAAAGAACCCCTGTGTAAGAAATTCAGG	2336
Db	2378	GAATTCCTCCCTCCACAGATCATGTGTTTAAAGATTAAGACCCCTGTGTAAGAACTCAGG	2437
OY	2337	CATTGTACTGAGATGGGAAACCGGAACCTGACTATCCGACGGGTGAGAAAGAGATGG	2396
Db	2438	CATTGTATTGAGGATGGGAAACCGGAACCTCATCTCCGAGAGTGAAGAAAGAGAGCA	2497
OY	2397	AGGCTCTTACACCTGCAAGGCTTGCAATGTCTCTTGGCTGTGCAAGAGCGAGACGCTCTT	2456
Db	2498	AGGCTCTTACACCTGCAAGGCTATCAGTGTCTTGGCTGTGCAAAAGTGAAGGCAATTTT	2557
OY	2457	CATATATGAAGGTGCCCAAGAAAAGACCACTTGAAGTCAATTATCTCTGTGGCACTGC	2516
Db	2558	CATATATGAAGGTGCCCAAGAAAAGAGAACTTGAAGATCAATTATCTTGAAGGCAACGRC	2617
OY	2517	AGATATTGCCATGTTCTTGTGGGCTCCTTCTTGTGATTTGCTTACGGAACCGTTAAGCGGGC	2576
Db	2618	GGTATATTGCCATGTTCTTGTGGCTACTTCTGTATCATCTTACAGAACCGTTAAGCGGGC	2677
OY	2577	CAATGAAGGGGAACTGAAGACAGGCTCTTGTCTTATGTGATGATGATCCAGATGATTTGCC	2636

Db 2678 CAATGAGGGGAACTGAAAGACAGGCTACTTGTCCATCGTCATGAGATCCAGATGAACTCC 2737
Qy 2637 CTTGATGAGCCCTGTGAAACGCTGTCTATGATGACACAGATGGAAATTTCCCGGGA 2696
Db 2738 ATTGATGAACTGTGAAAGCACTGCTTATGATGACAGAAATGGAAATTTCCCGGGA 2797
Qy 2697 CCGGCTGAAACTAGGAAAACCTTGTGGCCGGTGCCTCGGCAAGTATTGAGGCAGA 2756
Db 2798 CCGGCTGAAAGCTAGGTAACCTCTTGTGGCCGGTGCCTTGTGGCAAGATTTGAAAGCA 2857
Qy 2757 CGCTTTGGAATTGACAGACAGCGACTTGCAGAAACAGTAGCCGTCAGATGTTGAAAGA 2816
Db 2858 TGCCTTTGGAAATTGACAGACAGCAACTGACAGACAGTAGCAGATCAAAATGTTGAAAGA 2917
Qy 2817 AGGACGAACACACAGAGACATCGAGCCCTCATGTCGAACTCAAGATCTCATCCACT 2876
Db 2918 AGGAGCAACACACAGAGACATCGAGCTCATGTCGAACTCAAGATCTCATCTATAT 2977
Qy 2877 TGGTCACATCTCAATGTGTGAAACCTCTAGGCGCTGACCAAGCCGGAGGGCTCT 2936
Db 2978 TGGTCACATCTCAATGTGTGAAACCTCTAGGTCCTGTACCAAGCCGGAGGGCTCT 3037
Qy 2937 CATGCTGATTTGGAATTTGCAAGTTTGAACCTTATCACTTACTTACGGGCAAGAG 2996
Db 3038 CATGCTGATTTGGAATTTGCAAAATTTGGAACCTGTCACCTTACCTGAGGAGCAAG 3097
Qy 2997 AAATGAATTTGTCTCTATTAAGAGCAAGGGGACGCTTCCGCAAGGCAAGACTACGT 3056
Db 3098 AAATGAATTTGTCTCTCTAAGAGCAAGGGGACGCTTCCGCAAGGCAAGACTACGT 3119
Qy 3057 TGGGAGCTCTCGTGTGATCTGAAAGACGTTTGACAGCATCACAGAGCCAGAGCTC 3116
Db 3120 ----- 3119
Qy 3117 TGCAGCTCAGGCTTTGTTGAGAGAAATCGCTCAGTAGTGAAGAGAAAGCTTC 3176
Db 3120 -----GTATCTCC 3127
Qy 3117 TGAAGAACTGTACAGAGACTTCTGACCTTGAAGCATCTCATCTGTACAGCTTCCAAAGT 3236
Db 3128 TGAAGATCTGTATTAAGAGACTTCTGACCTTGAAGCATCTCATCTGTACAGCTTCCAAAGT 3187
Qy 3237 GGTAAAGGAGCATGAGTCTTGTGCAAGAGAAAGTATCAACAGGAGCTTGGCAGCAG 3296
Db 3188 GGTAAAGGAGCATGAGTCTTGTGCAAGAGAAAGTATCAACAGGAGCTTGGCAGCAG 3247
Qy 3297 AAACATTTCTCTATCGAGAAAGATGTGTTAAGTCTGTGACTTTCGGCTTGGCCGGGA 3356
Db 3248 AAATATCTCTTATCGAGAAAGACGTGGTTAAATCTGTGACTTTCGGCTTGGCCGGGA 3307
Qy 3357 CATTTATTAAGACCCGGATTAATGTCAGAAAGAGATGCCGACTTCTTGAAGTGAAT 3416
Db 3308 TATTTATTAAGATCGAGTTATGTCAGAAAGAGATCTCGCTTCTTGAAGATGAAT 3367
Qy 3417 GGGCCCGGAAAACATTTTGTGACAGAGTATACAAATTCAGAGCGATGTGTGCTTGG 3476
Db 3368 GGGCCCGGAAAACATTTTGTGACAGAGTATACAAATTCAGAGCGATGTGTGCTTGG 3427
Qy 3477 TGTGTGCTGTGGAAATATTTTCTTAAAGTGCCTCCCATACCTTGGGGTCAAGATTGA 3536
Db 3428 TGTGTGCTGTGGAAATATTTTCTTAAAGTGCCTCCCATACCTTGGGGTCAAGATTGA 3487
Qy 3537 TGAAGAAATTTTGTGAGAAATGAAAGAGAACTTGAATGCGGGCTCTGTACTACATAC 3596
Db 3488 TGAAGAAATTTTGTGAGGCAATGAAAGAGAACTTGAATGAGGGCCCTGTATTAATACAC 3547
Qy 3597 CCCAGAAATGTACAGACCATGTGAGCTGTGAGATGAGACCCCAACAGAGACCTTC 3656
Db 3548 ACCAGAAATGTACAGACCATGTGAGCTGTGAGACGGGAGCCCACTGAGAGCCAC 3607
Qy 3657 GTTTTCAGAGTTGTGAGCAATTTGGAAACCTCTCTGAGCAAAATGCGCAGCAGATGG 3716

Db 3608 GTTTTCAGAGTTGTGAGCAATTTGGAAATCTCTTGCAGAGCTAAATGCTCAGAGAGATG 3667
Qy 3717 CAAGAATATATTTGTTCTTCCATATGTCAGAGCACTGAGCATGGAAGAGATTTGAGAT 3776
Db 3668 CAAGAATATATTTGTTCTTCCATATGTCAGAGCTTGTGAGCATGGAAGAGATTTGAGAT 3727
Qy 3777 CTCCCTGACCTACCTGACCTGTTTCTGTATGAGAGAAAGAGATGTGGACCCCAAT 3836
Db 3728 CTCTGCTTACTCACTGCTTCTTCTGTATGAGAGAGAGAGATGTGACCCCAAT 3787
Qy 3837 CCATTATGACACACAGCAGAGAAATCAATATATCTCAAGAACATGAGAGAGAGCCG 3896
Db 3788 CCATTATGACACACAGCAGAGAAATCAATATCTGACAGAACATGAGAGAGAGCCG 3847
Qy 3897 GCGAGTGAATGTAATAAATTTGAAAGATGCCATTGAGAGAAACCAAGATTAAGTAT 3956
Db 3848 GCGTGTGATGTAATAAATTTGAAAGATGCCATTGAGAGAAACCAAGATTAAGTAT 3907
Qy 3957 CCCAGATGACAGCCAGACAGACAGTGGGATGCTCTGATCAGAGAGCTGAAACTCT 4016
Db 3908 CCCAGATGACACACAGACAGAGAGTGTATGCTTCTGCTGAGAGAGCTGAAACTTT 3967
Qy 4017 GGAAGACAGAAACAAATTAATCTCATCTTTGTGAAATGATGCCAGTAAAGAGAGGA 4076
Db 3968 GGAAGACAGAAACCAATTAATCTCATCTTTGTGAAATGATGCCAGTAAAGAGAGGA 4027
Qy 4077 GTCTGTGCTGTGGAAGGCTCCATACAGACAGTGGTACCAAGTGTGGTATCATCTAGA 4136
Db 4028 GTCTGTGCTGTGGAAGGCTCCATACAGACAGAGCTCAACAGTCCGATATACATCCGA 4087
Qy 4137 TGACACAGACACACAGTGTACTCCAGCGACAGAGCAGAGACTTTAAAGATGGTGAATGC 4196
Db 4088 TGACACAGACACACAGTGTACTCCAGTGAAGAGAGACAACTTTAAAGCTATGAGAT 4147
Qy 4197 TGCAG-----TTCACGCTGACTCAGGAGCCACACTGCG 4229
Db 4148 TGAAGTGCAGAACYGGTAGACACAGCCAGATTTCTCAGCTGACGCGGAGCCACACTGAG 4207
Qy 4230 CTCACCTCTGTTTAAATGGAAGTGTCTGTGCTCGGCTCGGCCCCCAATCTCTGAAAT 4289
Db 4208 CTCCTCTCTGTTTAAAGGAAG-----CATCAACCCCCCACTCCYGAACAT 4256
Qy 4290 CACGAGAGAGTGTGCTTAAGTTTCAAGTGTGTTCTTTCCACACCCGGAATGAGC 4349
Db 4257 CACATGAGAGTGTGCTCAAGTTTSAAGTGTGTTCTTTCCACACAGAGAGATGAGC 4316
Qy 4350 ACATTTGAATTTTCAATTTTGAAGAGGAGCTCAGACTGCAAGAGCTTGTCTCAGAGGC 4409
Db 4317 GCATTTGAATTTTCAATTTGCAAGACA--ACAAAGAGCTTCAAGAAATGGCCCATCTGC 4373
Qy 4410 ATTTCAGAGAAAGATGCCATGACCCAGAAATGTGTACTGTACTCTTTTCAATTCA 4469
Db 4374 AAAGAAAGTGAAGTACCTGGGAGGTGACACTTGTAAACTGAAAGATTAACAGGCA 4433
Qy 4470 TTTAAAGTCTATATATATGTGCTGCTGTGTCTCACTACAGTTAAAGCAAAAGACT 4529
Db 4434 ATGTA----- 4438
Qy 4530 TTCAAAACAGTGAATCTGTCTCCAGAGAGTGCAGCGACCTGTGAAACTGTATC 4589
Db 4439 ----- 4438
Qy 4580 GAATGGGCAATGCTTTGTGTGTTGAGAGTGGGTGAGATGTCCAGGGCCGAGTCTGTCTA 4649
Db 4439 -----AGTGTGAGGTGTTGAAGTGGAAAGATTTGACAGG-----CTGAGTCA 4485
Qy 4650 CTTGAGAGCTTTTGTGAGAGTGGGCTATG-AGCAAGTGTATGATGTGAGATGTGAGC 4708
Db 4486 TCCAGAGGCTTTTGTGAGAGTGGGTCCAGAGCCAACTTATGATGTGAAATTTGGAT 4545
Qy 4709 TGGAGGAAGAGGCGCAG-----TGCCTGAGAGAGCGTTGAGAGCTGACAGATGAT 4763
Db 4546 TGATGAAAGAGAGACTTAAGTACCTTGTGAGAGTACTGAGAGCTGCAATATGAT 4605

Qy 4764 TGTGCTGCTCTGTGTGAGGTGGGCTTGTGCTGTGAGAAACGCAAGGCGGCGCA 4823
Db 4606 TGTGTTGCTCTGTGTGAGGTGGGCTTGTGCTGTGAGAAATGTAAAGGTTGACAGC 4665
Qy 4824 GGGTTTGGTTTGTGAGAGTTTGGCTGTCTTCAAGTGGGGTTACAGGCAATTCCTGT 4883
Db 4666 GGGTTTCTGTGTTTGAAGTTGGCTGTCTTGTGAGTTGGGCTTAAAGTAGGTTGTTGT 4725
Qy 4884 GGGCTTCTCTACTCTTAATGAGAGTTCCCTCCGAGCTCTTACGTCTCTGTGCGCTGSC 4943
Db 4726 GCTGTTCTGACTCTTAATGAGAGTTCCCTCCGAGCTCTTACGTCTCTGTGCGCAAGC 4785
Qy 4944 CCAGAGAGAAATGATGAGAGCTTGTCTCTCAATCTCTCAAGCTGTGCTTAAATTCAG 5003
Db 4786 CCAGAGAGAAATGATGAGAGCTTGTCTCTCAATCTCTCAAGCTGTGCTTAAATTCAG 4843
Qy 5004 AACACCAAAAGAGAGAACT--CGGAGAGCTTCTTCAAGGCGGCGCAAAATTTGTGA 5061
Db 4844 AATACCAAAAGAGAGAACTTCAAGCTTCAAGGCTTCCGCTGTGAAAGTTCTGACT 4903
Qy 5062 ACAGAACAGAACTCAGGCTTCTGTGCTGGTGAAGACCAAGT 5104
Db 4904 GCAACAAACAGCTTCTGTGTTCTTCTGTGAATGAATACCTCAT 4946

RESULT 6
US-11-136-527-3313
; Sequence 3313, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mount, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3313
; LENGTH: 4016
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3313

Query Match 50.5%; Score 2720.8; DB 8; Length 4016;
Beet Local Similarity 90.9%; Pred. No. 0;
Matches 2917; Conservative 18; Mismatches 245; Indels 30; Gaps 3;

Qy 14 CCGGATAACTGTGATGACCCGATTCGCGGACACCGCTGACGCGGCTGAAGCCAGG 73
Db 77 CGGATAACTTCTCTGACAGCTGTCCGCGACACGCTGCAACCGCGGCTGAAGCCAGG 136
Qy 74 CCGCGGTGCCCCGGGCTCTCCCGGTCTTGGCGCTGCGGGGCGC-CATACCGCTCTGTGAC 132
Db 137 CGCGGTGCCCCGGGCTCTCCCGGTCTTGGCGCTGCGGGGCGC-CATACCGCTCTGTGAC 196
Qy 133 TTTCTTTGGGGCCAGGAGCGAGAAAGAGTCTGTGCTTGAAGAACTGGGCTCTGTGCCCA 192
Db 197 TTTCTTTGGGGCCAGGAGCGAGAAAGAGTCTGTGCTTGAAGAACTGGGCTCTGTGCCCA 233
Qy 193 GCGCGAGGTGACAGATGAGAGCAAGCGCTGCTAGCTGTGCTGTGTTGCTGCGTG 252
Db 234 AGCGGAGGTGACAGATGAGAGCAAGCGCTGCTAGCTGTGCTGTGTTGCTGCGTG 293
Qy 253 GAGACCCGAGCGGCTCTGTGAGTTTGACTGCGCAATTTTCTCATCCGCCCAAGCTGAC 312
Db 294 GAGACCCGAGCGGCTCTGTGAGTTTGACTGCGCAATTTTCTCATCCGCCCAAGCTGAC 353
Qy 313 ACAAGAAAGCATTAATTTTGGCAATTAACACCTTCAATTAATTTTGAAGGGA 372

Db 354 ACACAAAGACATATCTTAATTTGGCAATTAACACCTTCAATTAATTTTGAAGGGA 413
Qy 373 CAGCGGAGCTGAGCTGCTTTGGCCCAATGCTCAGCGGTGATTTCTGAGAAAGGATATG 432
Db 414 CAGAGGAGCTGAGTTGGCTTTGGCCCAACTCGGCTGATCTGTGAGAAAGGATATG 473
Qy 433 GTGACTGAATGCGCGGTGTGACATATCTTCTGCAAAACATCTCACCATTCCAGGTTG 492
Db 474 GTGACTGAT-----GTGGGACAGATATCTTCTGCAAGACACTCACAAGTTCCAGATG 527
Qy 493 GTTGAATGATTAATGAGGCTTCAAGGCTCGTACCGGGAGCGTCAATGAGCTCCACT 552
Db 528 GTTGAATGATTAATGAGGCTTCAAGGCTCGTACCGGGAGCGTCAATGAGCTCCACT 587
Qy 553 GTTATGTATATGTTGAGATTAAGATTAACATTAATGCTGCTGTCAAGTACAGCAT 612
Db 588 GTTATGTATATGTTGAGATTAAGATTAACATTAATGCTGCTGTCAAGTACAGCAT 647
Qy 613 GGCATCGTATCATACCGAGAACAAACAAACAACTGTGTATCCCTGCGAGGTTG 672
Db 648 GGCATCGTATCATACCGAGAACAAACAAACAACTGTGTATCCCTGCGAGGTTG 707
Qy 673 ATTTCAACCTCAATGCTCTTTGCGCTAGGATCCAGAAAGAGATTTGTTCCGAT 732
Db 708 ATTTCAACCTCAACGTTCTTTGCTAGGATCCAGAAAGAGATTTGTTCCGAT 767
Qy 733 GAAACAGAAATTTCTCTGAGACAGGATAGCTTTACTCTCCAGTTACATGATCAGC 792
Db 768 GAAACAGAAATTTCTCTGAGACAGGATAGCTTTACTCTCCAGTTACATGATCAGC 827
Qy 793 TATCCGCGCATGCTCTTCTGTGAGGCAAGATCAATGATGAACCTTACATATCATG 852
Db 828 TATCCGCGCATGCTCTTCTGTGAGGCAAGATCAATGATGAACCTTACATATCATG 887
Qy 853 TACATAGTTGATGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 912
Db 888 TACATAGTTGATGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 947
Qy 913 ATTAGCTATCTGCGGAGAAACCTTCTTAAATTTGACAGGAGAACAGACTCAT 972
Db 948 ATTAGCTATCTGCGGAGAAACCTTCTTAAATTTGACAGGAGAACAGACTCAT 1007
Qy 973 GTGGGGCTGATTTTCACTGCGACTCTCCACTTCAAAAGTCTCATTAAGAAATGTA 1032
Db 1008 GTGGGGCTGATTTTCACTGCGACTCTCCACTTCAAAAGTCTCATTAAGAAATGTA 1067
Qy 1033 AACCGGATGTAACCTTTCTGAGGACTGTGCGAAGATGTTTGTGAGCACTTGA 1092
Db 1068 AACCGGATGTAACCTTTCTGAGGACTGTGCGAAGATGTTTGTGAGCACTTGA 1127
Qy 1093 ATAGAAAGTGTGACCAAGAGTGAACCAAGGAAATACCTGTGTAGCGTCCAGTGAAG 1152
Db 1128 ATAGAAAGTGTGACCAAGAGTGAACCAAGGAAATACCTGTGTAGCGTCCAGTGAAG 1187
Qy 1153 ATGATCAAGAAATTAAGAACTTTGTCCGAGTTTCAACAAAGCTTTTATTTGCTTGGT 1212
Db 1188 ATGATCAAGAAATTAAGAACTTTGTCCGAGTTTCAACAAAGCTTTTATTTGCTTGGT 1247
Qy 1213 AGTGGATGAAATTTTGTGGAAGCAAGTGGGAGTCAAGTCCGAAATCCGTGTGAAG 1272
Db 1248 AGTGGATGAAATTTTGTGGAAGCAAGTGGGAGTCAAGTCCGAAATCCGTGTGAAG 1307
Qy 1273 TATCTAGTTAACCAAGCTCTGTATATCAATGATGATGATGATGATGATGATGATGAT 1332
Db 1308 TATCTAGTTAACCAAGCTCTGTATATCAATGATGATGATGATGATGATGATGATGAT 1367
Qy 1333 AACTACCAATGATTTTGGCGATGAACCTACATCATGGAAGTGAATGGAAGATGCA 1392
Db 1368 AACTACCAATGATTTTGGCGATGAACCTACATCATGGAAGTGAAGATGGAAGATGCG 1427
Qy 1393 GGAACCTACAGGCTCATCTCAACCAAGCTTCAATGGAAGAACAGAGCAGATGATG 1452
Db 1428 GGAACCTACAGGCTCATCTCAACCAAGCTTCAATGGAAGAACAGAGCAGATGATG 1487

QY	1453	CTCTGGTGTGAAGTGTCCACCCAGATCGGTGAAAGCTTGATCTCGCTATGAT	1512
Db	1488	TCTCTGGTGTGAAGTGTCCACCCAGATCGGTGAAAGCTTGATCTCTATGAT	1547
QY	1513	TCCTAACAGTATGGAGCCATGAGACATGTGACATGCATACAGTCTACGCCAACCTTCCCTG	1572
Db	1548	TCCTAACAGTATGGAGCCATGAGACGTGACATGCATACAGTCTATGCCAACCTTCCCTG	1607
QY	1573	CACCACATCCCACTGCTACTGGCAGCTTAAAGAAAGCTCTCTACAGACCCGGCCAAACA	1632
Db	1608	CACCACATCCCACTGCTACTGGCAGCTTAAAGAAAGCATCTCTACAGGCCCAAGCCAAACA	1667
QY	1633	AGCCCGTATGCTTGTAAAGAAATGGAGACGCGGAGGATTTTCCAGGGGGGAAACAAGATC	1692
Db	1668	AACCATATATCTTGTAAAGAAATGGAGACAGCTGAAGGATTTTCCAGGGGGGAAATTAAGATC	1727
QY	1693	GAACTCACCAAAAACCAATATATGCCCTGTAAAGGAAAAAACAACCTGTAAATACGCTG	1752
Db	1728	GAACTCACCAAAAACCAATATATGCCCTGTAAAGGAAAAAACAACCTGTAAATATCTGT	1787
QY	1753	GTCATCCAAAGCGCCAAAGTGCAGCGGTGTAAACAAATGTGAAGCATCAAAAGCCGGA	1812
Db	1788	GTCATCCAAAGCGCTTACGCTGTGCATTTAAACAAATGTGAAGCATCAAAAGCCAGGA	1847
QY	1813	CGAGAGAGAGGGTATCTCTTCATGTGATCAAGGGTCTGTAAATATCTGTCAACCT	1872
Db	1848	CGAGAGAGAGGGTATCTCTTCATGTGATCAAGGGTCTGTAAATATCTGTCAAGCT	1907
QY	1873	GCTGCCCAAGCCAACTGAGCAGAGAGATGTTCCTGTGTGCACTGCAGACAGAAATACG	1932
Db	1908	GCTACCCAGCCAAACGAGCGGAGAGTATGTCTTATATGTCCACTGCAGATAGAAACACG	1967
QY	1933	TTTGAAGAACTCAGCTGGTACAAAGTTTGCTCAACAGGCAACATGGTCAATAGGGGGA	1992
Db	1968	TTTGAAGAACTCAGCTGGTACAAAGTTTGCTCAACAGGCAACATGGTCAATAGGGGGA	2027
QY	1993	TCACTCACACGATTTGCAAGAACTTGATGCTCTTTGGAAACTGAATGGCAACATGTT	2052
Db	2028	TCACTCACACGATTTGCAAGAACTTGATGCTCTTTGGAAACTGAATGGCAACATGTT	2087
QY	2053	TCCTAACAGCAAAATGACATCTTATGTGTGCAATTCAGAAATGTGCTCTGCAGAGACCA	2112
Db	2088	TCCTAACAGCAAAACGACATCTTATGTGTGCAATTCAGAAATGTGCTCTGCAGAGACCA	2147
QY	2113	GGCAGCTATGTGTTGCTCTGCTCAAGATTAAGAAACCAAGAAAAACAATGGCTGTCAAA	2172
Db	2148	GGCAGCTATGTGCTCTCTGCTCAAGACAAAGAAACCAAGAAAAACAATGGCTATGTCAG	2207
QY	2173	CAGCTCATCATCTTGAAGCGCATGGCACCTGATCACCCGAAATCTGAGAAATCAGACA	2232
Db	2208	CAGCTCTGCATCTTGAAGCGCATGGCACCCCTGATCACTGAAAAATCTGAGAAATCAACA	2267
QY	2233	ACAACCAATTTGGCGAGACCAATTGAAGTGAACCTGCCAGATCTGGAATTCCTACCCCAAC	2292
Db	2268	ACAACCAATTTGGTGAAGCCATGAAATGTTTGTCCAAACATTTGGAACCCCTACCCCTTC	2327
QY	2293	ATTACATGTTTCAAAAGCAACGAGACCCCTGTAGAAATTCAGGCAATTTGTAAGTAGAT	2352
Db	2328	ATTACATGTTTCAAAAGCAATGAGACCCCTGTAGAAATTCAGGCAATTTGTAAGTAGAT	2387
QY	2353	GGGAAACCGGAACCTGACATATCCGACAGGTGAGAAAGAGATGGAAGGCTTCAACTGC	2412
Db	2388	GGGAAACCGGAACCTTACATCTCGAAGGTGAGAAAGAGAGGAGGAGGCTTCAACTGC	2447
QY	2413	CAGGCTGTGATGTCTTGGCTGTGCAAGACGAGACGCTCTTCAATATGAAGGTGCC	2472
Db	2448	CAGGCTGTGATGTCTTGGCTGTGCAAGACGAGACGCTCTTCAATATGAAGGAGTGC	2507
QY	2473	CAGGAAAAAGCAACTTGGAAAGTCAATATCTCTGTGGCACTGTGACGTGATTCGATGTC	2532
Db	2508	CAGGAAAAAGCAACTTGGAAAGTCAATATCTCTGTGGCACTGTGACGTGATTCGATGTC	2567

OY	2553	TTCTGGCCTCTTGTGTCATGTGCTCTCAAGCAGCCTTAAAGCGGCGCAATGAAAGGGAACTG	2592
Db	2568	TTCTGGCTCCTCTTGTGTCATCTGTGACAGCCTTAAAGCGGCGCAATGAAAGGGAACTG	2627
OY	2593	AAGA CAGGCTA CTTGTCTA TTGTCA TGATGC ATCAGATGAA TTGGCTTGGATGAGACGCTGT	2652
Db	2628	AAGA CAGGCTA CTTGTCTA TTGTCA TGATGC ATCAGATGAA TTGGCTTGGATGAGACGCTGT	2687
OY	2653	GAA GCGCTTG CTTA TGA TGA TGC CAG AAG TGGGAA TTCC CAG GGA CCGG CTGAA ACTT AGA	2712
Db	2688	GAA GCGCTTG CTTA TGA TGA TGC CAG AAG TGGGAA TTCC CAG GGA CCGG CTGAA ACTT AGA	2747
OY	2713	AAACCTTCTG GCGCGG GTGCCCTTGGG CCAAGTGA TTGAGCAGACGCTTTTGGAA TTGAC	2772
Db	2748	AAACCTTCTG GCGCGG GTGCCCTTGGG CCAAGTGA TTGAGCAGACGCTTTTGGAA TTGAC	2807
OY	2773	AAGACACGCA CTTCGAA AACA GTGACCGCTGAA TGTTTGAA AAGA AGA GCAACA CACAGC	2832
Db	2808	AAGACACGCA CTTCGAA AACA GTGACCGCTGAA TGTTTGAA AAGA AGA GCAACA CACAGC	2867
OY	2833	GAGCAGTGA GCGCTCATGTCTGA ACTGAAGTCTTCA CTCAATGGTCA CACATCTCAAT	2892
Db	2868	GAGCAGTGA GCGCTCATGTCTGA ACTGAAGTCTTCA CTCAATGGTCA CACATCTCAAT	2927
OY	2893	GTGTGAACTCTTACGCGCTGTGACA CAAAGCGGAGGCTCTCATGTGATTTGTGAA	2952
Db	2928	GTGTGAACTCTTACGCGCTGTGACA CAAAGCGGAGGCTCTCATGTGATTTGTGAA	2987
OY	2953	TTTGGCAAGTTTGGAA ACTATCAACTTACTCTAA GCGGGCAAGAAATGAAATTTGATCCC	3012
Db	2988	TTTGGCAAGTTTGGAA ACTATCAACTTACTCTAA GCGGGCAAGAAATGAAATTTGATCCC	3047
OY	3013	TATAAGAGCA AAGGGGCA CGCTTTCGCG CAGGGCAAGGACTACGTTGGGAGCTCTCCGTG	3072
Db	3048	TATAAGAGCA AAGGGGCA CGCTTTCGCG CAGGGCAAGGACTACGTTGGGAGCTCTCCGTG	3107
OY	3073	GATCTGAAAAGAGCCTTGGACAGCATAC CAGCAGCGCAGAGCTCTGCACTCAGGCTT	3132
Db	3108	GATCTGAAAAGAGCCTTGGACAGCATAC CAGCAGCGCAGAGCTCTGCACTCAGGCTT	3167
OY	3133	GTTTGAAGAAATCGCTCA GTGATGTGAGAGAAAGAAAGACTTCTGAAAGACTGTACAG	3192
Db	3168	GTTTGAAGAAATCGCTCA GTGATGTGAGAGAAAGAAAGACTTCTGAAAGACTGTACAG	3227
OY	3193	GACTTCTGACCTTGGAGCATCTCATCTGT	3222
Db	3228	CACAACAGAACTAGGGTTTCTGCGGGGT	3257

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RESULT 7
US-10-821-234-770
; Sequence 770, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmat, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 67/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 770
; LENGTH: 4017
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-770

Query Match      14.2%; Score 768; DB 7; Length 4017;

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Best Local Similarity 55.4%; Pred. No. 1.7e-226;	
Matches 1779; Conservative 0; Mismatches 1355; Indels 78; Gaps 12;	
Qy	538 GACATAGCCTCACGTTTATGTCTATGTGAGATTCACAGTCCACATTCATGCGCCT 597
Db	355 GAACAGAAATTCGCAATCTATATATTTATTTAGTATACAGGTAGCCTTTGTAAGATG 414
Qy	598 GTCAGTGAACAGATGAGTGTGTATCAACCGAACAAGAACAAACTGTGTGATC 657
Db	415 TACAGTGAATCCCGAATATATACATGACTGAAGAGGA-----GCTGTCAAT 468
Qy	658 CCTGCGGAGGTGATTTCAAACTCAATGTGTCTTTGGCTAGGTATTCAGAAAG 717
Db	469 CCTGCGCGGTATCGTCACTAACATCACTGT---TACTTTAAAAATTTCCACTTGAC 525
Qy	718 AGATTGTTCCGAGTGAAGAAAGAAATTTCTGGGACAGAGATAGGCTTTACTGCC 777
Db	526 ACTTGATCCCTGATGAAAAAGCATATCTGGGCAAGTGAAGAGGCTTCACTATATCA 585
Qy	778 AGTACATGATCAGCTATGCGGCGATGCTTCTGTGAGGCAAGATCAATGATGAAC 837
Db	586 AATGCAAGTACAAAGAAATAGGCTTCTGACTGTGAAGCAACATGAGGCAATTG 645
Qy	838 TATCAGTATATCATATGATATGTTGTGTGAGATATAGGATTTATGATGTGATCTG 897
Db	646 TATAGAGCAAACTATCTCACATGACACA---MACCAATACATCATGATGTCCAAATA 702
Qy	898 AGCCCCCGCATGAATTTAGAGTATCTGCGGAGAAAACTGTCTTAATTTGACAG 957
Db	703 AGCACACACGCCCGCATTAATTTACTTAGAGGCCATCTTGTCTCTAATTTGATCT 762
Qy	958 AGAACAGAGCTCAATGTGGGGCTTGATTTCACTGGAACCTCCACTTCAAAAGCTCAT 1017
Db	763 ACCACTCCCTTGAACACAGAGATTCAATGTACCTGAGATTACCTGATGAAA-----AA 816
Qy	1018 CATAGAAGATTTGTAACCGGAGTGTGAACCTTTCTGGGACTGTGCGCAATGTTT 1077
Db	817 AATAGAGAGCTTCGTAAGCGAGCAATTTGACAAAGCAATTCATGCCAACATATTC 876
Qy	1078 TTGAGCACTTGAACAATAGAAAGTGTGACCAAGATGTACCAAGGGAAATACCTGTGA 1137
Db	877 TACAGTGTCTTATCTATTTGACAAATGCAAGAACAAAGCACTTTATATCTTGTGT 936
Qy	1138 GCGTCCAGTGAACGAGATGATCAAGAAATAGAACATTTGTCCGATTCACACAAAGCT 1197
Db	937 GTAAGAGTGAACCATCTTCAATCTGTAAACCTCAGTGCAATATATATGATTAACA 996
Qy	1198 TTTATGTCTTTCGGTAGTGGAGTGAATCTTTGTGTGAAGCCACAGTGGGCA---GTCAA 1254
Db	997 TTTATCTACTGTGAACAATCGAAACAGAGGTGTGAACCGTATGCTGGCAAGCGGTCT 1056
Qy	1255 GTCCGAATCCCTGTGAATATATCTCAGTTACCCAGCTCTGATATCAATATGTGACGAAT 1314
Db	1057 TACCGGCTCTTATGAAGTGAAGGCAATTTCCCTGCGGAAAGTTGATGTGTAAAGAT 1116
Qy	1315 GG-----AAGGCCCATTTAGTCAACATGATTTGGGAGTGAATCTCAATC 1368
Db	1117 GGGTTACTGTGAGACTGAAGAAATCTGCTGCTATTTGACTCGTGGCTATCTGTTATATAT 1176
Qy	1369 ATGGAAGTGAAGTGAAGATGACAGAAATCAACAGGTCACTCTCAACCAACCCATTTTCA 1428
Db	1177 AAGGAGTGAAGTGAAGATGACAGAAATTAATCTTGTGAGATTAACACATGCA 1236
Qy	1429 ATGGAAGAACAGAGCATGATCTCTCTGTGTGATGATGCCACCCAGTGGGTGAG 1488
Db	1237 AATGTGTTTAAACCTTCACTGCACTTAAATGTGATGTGAACCCCAAGATTTTACGAA 1296
Qy	1489 AAAGCTTGTATCTGCGCT-----ATGATTTCTTACAGATATGGAGCCATGACGATG 1542
Db	1297 AAGGCGGTGTATGTTCAGAACCCGCGCTCTTCACTGAGGACAGACAAATCTGT 1356
Qy	1543 ACATGCAAGTCTTAGCCCAACCTTCCCTGCAACCATCAGTGTACTGGCAGCTAGAA 1602

Db	1357 ACTGTACCCGATATGATATCCCTCAACCTAACATCAATGATGATCTGTGACCCCTGTAA 1416
Qy	1603 GAAGCTGTCTCTTACAGACCCGCGCAAAACAGCCGATGTCTGTAAAGATGAGACAC 1662
Db	1417 CATATATCTTCCGAAGAGGTGACTTTTGTTCATATATGAAGTCTCTTATCTCTG 1476
Qy	1663 GTGAGGATTTTCAAGGGGGGAAACAGATGCAAGTCAACAAAAACAATATGCTGTATT 1722
Db	1477 GATGCTCAACAGCAATGAGGAAACAGAAATGAGAGCATCACTCAGCCGATGCAATATA 1536
Qy	1723 GAAGAAAAAACAAATCTGTATACCTGTGCTATCCAGTGTCCACGTGTGACGCTTG 1782
Db	1537 GAAGAAAGATTAAGATGCTAGACCTTGTGTGTGCTGCTAGATTTCTGAAATC 1596
Qy	1783 TACAAATGTGAAGCATCAACAAAGCGGAGAGAGAGAGGATCATCTCTTCATGTG 1842
Db	1597 TACATTTGCAATGCTTCCAAATTAAGTTGGAGCTGTGGAGAAACATTAAGCTTTTATTC 1656
Qy	1843 ATCAGGGGTGC---TGAATTTACTGTGCAACCTGTGCCACGCAACTGACAGAGAT 1899
Db	1657 ACAGATGTGCCAAATGAGGTTTCACTGTAACTTGAAGAAATGCGGACGGAAGAGAGAC 1716
Qy	1900 GTGTCCCTGTGTGCTACTGACAGACAGAAATACGTTTGAGAACTCAAGTGTACAGATT 1959
Db	1717 CTGAACCTGTCTTCAACAGTTTACAGAGTCTTTATACAGAGCGTTACTGATTTTACTG 1776
Qy	1960 GGCTCACAGGCAATCGGTCCACATGCGGCAATCACTCACACAGTTTGGCAAGAACTTG 2019
Db	1777 CGGACA-----GTTAATACAGAACATGCACTATGATTTAGCAAGCAAAAA 1824
Qy	2020 GATGCTCTTTGAAACTGATGAGCAATGTTTCTTACAGACACAAATGACATCTTGATT 2079
Db	1825 ATGCGCATCACTAAGAGACCTCATCATCTTATATCTTACATCA----- 1870
Qy	2080 GTGCAATTTCAAGATGTGCTCTGTGAGAGCCAAAGCGCATATGTTGTCTGCTCAAGAT 2139
Db	1871 -----TGAATGTTTCCCTGCAAGATTCAGGACCTATGCTGTGACAGCAAGAT 1920
Qy	2140 AAGAAACCAAGAAAGACATTTGCTGTGTCAACAGCTCATCTATGAGCGGATGCA 2199
Db	1921 GTATACACAGGAGAAATCTCTCAGAAAGAAATTTCAATCAAGATCAAGAGAC 1980
Qy	2200 CCATGATCAACCGGAAATCTGAGAAATCAACAAACATTTGCGGAGACCATTTGAAGTG 2259
Db	1981 CCATACCTCTCGCAAACTCAGATCAACATGTGCACTACAGATTTCCACCACTTTA 2040
Qy	2260 ACTGCCAGATGTGGAATCTTACCCCACTTACATGTTTCAAGAACAGAGACC 2319
Db	2041 GACTGTATGTAAATGTGTCTCCGAGCTCAATCACTTGTGTTAAAAACACACAAA 2100
Qy	2320 CTGTGAGAAAGATTCAGGCAATTTGTAAGATGAGAGGAAACCGGAACCTGATATCCGACG 2379
Db	2101 ATACAAACAGAGCTGTGAATTTATTTAGACACAGAAAGCAGCAGCTGTATTAGAAAGA 2160
Qy	2380 GTGAGAAAGAGATGAGGCTTCAACCTGCAAGCTGTCAATGTCTTTGCTGTGCA 2439
Db	2161 GTCAAGAAAGATGAGGATGTATCACTGTGCAAGCAACCAACAGAAAGGCTCTGTG 2220
Qy	2440 AGAGCGAAGCGCTTCTTATATGAAGGTGCCAGGAAAGAACCACTTGAAGTCAAT 2499
Db	2221 GAAGTTTCAAGATACCTCACTGTTCAGAGAACTCGGACAAAGTCTAATCTGAGCTATC 2280
Qy	2500 ATCTGTGCGCACTGACGATGATGCAATGTTCTTGTGCTCTTCTTGTGATTTCTCTTA 2559
Db	2281 ACTTAAACATGACACTGTGTGTGCGTACACTCTCTTGTGGCTCTTATTAACCTCTTATTC 2340
Qy	2560 CGGACCGTTAAAGCGGCAATGAAGGGAATGAAGACAGGCTACTGTCTTATTTGCTATG 2619
Db	2341 CGAAAAATGAAGAGTCTTCTTC---TGAATTAAGCTGACTCATCAATATTAATG 2397
Qy	2620 GATCAGATGAATGCGCTTGTGATGAGCGGTGAAGCTTGTGCTTATGATGACAGCAAG 2679
Db	2398 GACCAAGATGAAGTTCTTTGATGACAGTGTAGCGGCTCCTTATGATGCAAGCAG 2457

QY 2680 TGGGAATCCCGGAGGACCGGCTGAATAGAAAACTCTGGCCGCGTGCCTTCGGC 2739
DB 2458 TGGGAATTCCTCCGGGAGAGACTTAATCTGGGCAATCACTTGAAGAAGGGGCTTTTGA 2517
QY 2740 CAAGTATTTGAGGCAGACGCTTTTGAATGACAAAGACGCGACTTGGCAAAACATGATGCC 2799
DB 2518 AAAGTGGTTCAGACATCAGCATTTGGCATTAAGAAAAATCACTTCGTCGGGACATGTGGCT 2577
QY 2800 GTCAAGATTTGAAGAAGAGACAAACAGGAGACATCGACCCCTCATGTGTGAATC 2859
DB 2578 GTGAAATCTGTAAAGAGGGGGCCAGCGCCAGGAGTCAAAAGCTCTGATGACTGAGCTA 2637
QY 2860 AAGATCTCATCCACATTTGTCAACATCTCAATGTGTGAACTCTTAGCGCCCTGACC 2919
DB 2638 AAAATCTTACCCACATTTGGCCACCATCTGAAGTGTGTTAACTGCTGGGAGCTGACAC 2697
QY 2920 AAGCGGGAGGGGCTCTCATGTGTGAAATTTGCAAGTTTGAATCTATCACT 2979
DB 2698 AAGCAAGAGGGGCTCTGATGTGATTTGTAATCTGCAAAATATGAAATCTCTCAAC 2757
QY 2980 TACTTACGGGGCAAGAAATGAATTTGTTCCCTATTAAGCAAGGGGACGCTCCGC 3039
DB 2758 TACCTCAAGAGCAACGTGACTTAATTTCTCAACAGAGATGCACACTACATGAG 2817
QY 3040 CAGGCGAAGACTACGTTGGG--GAGCTCTCCGTGATCTGAAAAGACGCTTGAACAGC 3096
DB 2818 CTAAGAAAGAAATATGAGCGAGGCTGSAACAAAGCAAGAAACCAAGACTAGATAC 2877
QY 3097 ATCAACAGAGCCAGAGCTCTGCACTCAGAGCTTGTGAGAGAAATCGCTCACTGAT 3156
DB 2878 GTACACAGAGCGAAAGCTTTGCGAGCTCCGCTTTCAGAAAGATTAAGTCTGAGTAT 2937
QY 3157 GTAGAGAAAGAAAGCTCTGAAGAAGCTTAAGCAAGCACTCTCTGACTTGAAGCATCTC 3216
DB 2938 GTTGAAGAAAGAGAGATCTGACGCTTCTCAAGAGAGCCCACTCAATGAGAGATCTG 2997
QY 3217 ATCTGTACAGCTTCCAGTGTGCTAAGGCAATGAGAGTCTTGGCATCAAGAAATGATC 3276
DB 2998 ATTCTTACAGTTTCAAGTGTGCGAGAGGCAATGAGTCTCTGCTTCCAGAAAGTGTAT 3057
QY 3277 CACAGGAGCTTGGCAGACGAAACATTTCTCTATCGAGAGAAATGTGTAAATCTGT 3336
DB 3058 CATCGGAGCTTGGCAGCGAAACATTTCTTATCTGAGAACAGTGTGAAGATTGT 3117
QY 3337 GACTTCGCTTGGCCCGGCACTTTATAAGACCCGGAATTATGTGAGAAAGAGATGCC 3396
DB 3118 GATTTTGGCTTGGCCGGGATATTTATAAGAACCCGATTTATGTGAGAAAGAGATCT 3177
QY 3397 CGACTCCCTTTGAAGTGTGCCCCCGGAAACATTTTGAAGAGATATACAAATTCAG 3456
DB 3178 CGACTTCCTGAAATGATGTGCTCTGAAATCTATCTTTGCAAAATCTACAGCACAG 3237
QY 3457 AGCGATGTGTGCTTTTGGTGTGTCTCTGGAATAATTTTCTTAGAGTCTCCCA 3516
DB 3238 AGCGAGTGTGTCTTACGGAATATGTGTGGGAAATCTTCTCTTAGGTGGTCTCA 3297
QY 3517 TACCTGGGGTCAAGATTTGAAGATTTTGTAGAGATTTGAAGAAAGAACTAGATG 3576
DB 3298 TACCCAGAGATCAAAATGATAGAGACTTTTGCAGTGTGAGGAGAGAGAGAGAG 3357
QY 3577 CGGGCTCTGACTACATCCCAAGAAATGTACAGACATCTGGAATGTGAGATGAG 3636
DB 3358 AGAGTCTCTGAGTACTTACTCTGAAATCTATCAGATATCTGGAATGTGAGACAG 3417
QY 3637 GACCCCAACAGAGACCTCTGTTTCAAGTGTGTGAGAGATTTGGGAAACCTCTGCA 3696
DB 3418 GACCCCAAGAAAGAGCCAAAGATTTGAGAACTTGGGAAACCTAGAGATTTGCTCA 3477
QY 3697 GCAAAATGGCAGAGAGATGGCAAGATATAT 3728
DB 3478 GCAAAATGTACACAGAGATGTAAAGACTACAT 3509

RESULT 8
US-11-136-527-2518
; Sequence 2518, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounes, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
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; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2518
; LENGTH: 4734
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2518

Query Match 13.3%; Score 718.6; DB 8; Length 4734;
Best Local Similarity 54.2%; Pred. No. 3.8e-211;
Matches 1751; Conservative 15; Mismatches 1389; Indels 78; Gaps 13;

QY 517 AAGTGTCTTACCGGAGCTGACATAGCTTCCACTGTTTATGTCTATGTGAGATTAC 576
DB 570 AATCCACTTCAGAGGAAAGAAATGAAATCTGCAATCTCAATATTTGTAGTATGCA 629
QY 577 AGATCAACATTCATCGCTCTGTAGTGTGACAGCATGCGATGCTGTGATATCAACCGAGAAC 636
DB 630 GGGAGCTCTTATAGATAGATGCAAGTGAATCCAAACCTGTGACATGACAG----- 684
QY 637 AAGAAACAACTGTGTGATTCCTGCGAGGATGATTTCAACCTCAATGTCTCTT 696
DB 685 -AAGAGAGAGACTCATCATCTCCGCGGGTGAAGTCTCCCAACATCAAGTCACTCT- 742
QY 697 TGGCTAGTATCCAGAAAGAAATTTGTTCCGATGAAACAAATTTCTGGGACAGC 756
DB 743 -AAAAAGTTTCCATTGACGCTCTTACCTCTGACGGGCAAGAAATACCGTGGGACACT 800
QY 757 GAGATAGCTTATCTCCCGATTACATGATCAGTATGCGGAGATGCTCTGTGAG 816
DB 801 AGAGAGGCTTTATATAGCAATGCAACGTAACAAAGATGAGACTGTGACCTGGCAA 860
QY 817 GCAAAATCAATGATGAAACCTATCATGATCATGATCATGATGATGATGATGATAT 876
DB 861 GCCACAGTTAACGGGCACTGTACCAAGACAAATTTATGACCATCGGACACA--AT 917
QY 877 AGGATTTATGATGATTTCTGAGCCCCCGGATGAAATTTGAGCTATTTGCGGAGAAAA 936
DB 918 ACAATCTAGATGTCAATATAGCCCGGAGCCCGGAGATTCCTCGGTGTCAAACT 977
QY 937 CTGTCTTAATTTTACAGCGAGACAGAGCTCAATGTGGGCTTGAATTTCACTGGGAC 996
DB 978 CTGTCTCACTGACGCTGACCGACGAGCTCTCAATCAAGGCTGAGTGAAGTCTGGAAT 1037
QY 997 TCTCCACCTTCAAGTCTCATCATTAAGATTTGTAACCGGAGTGTGAAACCTTTCT 1056
DB 1038 TACCTGTGTAAGCAATTAAGAGACATCTATCAAGGACGGAATGACCAAGCAATGCC 1097
QY 1057 GGGAGTGTGGGAGAGATTTTGTGACACTTGAACATTAAGAAAGTGTGACCAAGGTAC 1116
DB 1098 CACA-----GCAATGTGTTCACAGCGTTCTTAAGATCAACAGGTGAGAGCCGGGAC 1151
QY 1117 CAAGGAGATACACCTGTGTAGCGTCCAGTGGAGCGATGATCAAGAAATGAACTTT 1176
DB 1152 AAGGACTCTACACTTGTGTGTGAAAGTGGGTGTATTCGGAATTTCAACCTCT 1211
QY 1177 GTCCAGTTTCAACAAAGCTTTTATTTGCTTTCGATGTGAGATGAAATCTTTGTGANA 1236
DB 1212 GTGCATGTGTATGAAGAGATTTATTCAGCGTGAAGCATCGGAAGCAACAGGTGAGGAA 1271

QY 1217 GCCACAGTGGGCACTCAAGTC---CGAATCCCTGTGAAGTATCTCAGTTACCCAGCTCCT 1293
DB 1272 ACCATAGCAGGAAACGGTCCCATTCGGCTGTCAAGAAAGTGAAGCCCTTCCCTCGGCA 1331
QY 1294 GATATCAATGTGTACAGAAATGGAAGGCCCATTTGATGCCAATCAACAAT-----GATT 1347
DB 1332 GAAGTCGTATGTGTAAAAGATGGCCGTACCCCGCAACGGAATCTGCTCGCTATTCGGGTG 1391
QY 1348 GTTGGCGATGAACCTCACCATCATGTGAAGTGACTGAAGAGATGACGAACCTACACGGTTC 1407
DB 1392 CATGCTACTCTGTTATTTATTCAAAGATGTAAGTACGCGAGAGACGAGGGAATTAACRMS 1451
QY 1408 ATTCCTCACCAACCCCATTTTCATGTGAAGAAACAGACCAATGCTCTCTGTGTTGTAAT 1467
DB 1452 TTGCTGGGCACTAATAACAGTCAAAGCTATTAGAAACCTCAACGCCACTCTCATGTAAT 1511
QY 1468 GTCCCAACCCCAAGTGGGTGAGAAAGCCTTGATCTCGCCTTAGATTC-----CTACGAG 1521
DB 1512 GTGAACCTCAGATCTACGAAAGATCCGTGTCTCTCCCAAGCCCACTCTTAACCCA 1571
QY 1522 TATGGGCACTATGCAACAATTGACATGCAAGTCTACCGCAACCCCTCCCTGACACATC 1581
DB 1572 CTGGCAGACAGCAAGTCTCTCACTTGCAACCGGTATGATCCCT--CAGCTACATC 1628
QY 1582 CAGTGTACTGGCAGCTAGAAAGAACCTGTCTCTACAGACCGGCAACCAAGCCGAT 1641
DB 1629 AAGTGGATGTGGCAACCCGTGTCACTAACACCTCAAGAAAGAAATGACTTCTGCTTT 1688
QY 1642 GCTTGTAAAGATGAGACAAGCTGGA---GGATTTCCAGGGGGGAAACAGATCGAATC 1698
DB 1689 GGGAGTGAAGATCTTCATCTTGATTCAGACCAACATAGAAACAGATCAGAGGC 1748
QY 1699 ACCAABAAACCAATATGCCCTGATTGAAGAAABAAACCAATCTTAAGTACGTGTATC 1758
DB 1749 ATCACTACGCGCATGATGTCTATAGAAAGAACCAATTAAGACGTTAGCACTGGTGGTG 1808
QY 1759 CAAGCTGCCCAACGTGTCAAGCTTTGTACAATGTGAAGCCATCAACAAACGGGAGACGAGA 1818
DB 1809 GCTGACTCTGGGACCCCTGGAAGCTAACAGCTGCAAGGCTTCAATAAATAGGAGCTGTG 1868
QY 1819 GAGAGGTCATCTCTTCCATGTGATCAAGGGGTCTGAAATTAATCTGTCAACCTGTGCC 1878
DB 1869 GRGAGAGCATTAAGGTTTACGTCACASATGTGCCAAACGGCTTTCAGTTCCTTGAA 1928
QY 1879 CAGCCAACTGAAGAGGAGATGTGTCCTGTGTGTCACATGCAACAGAAATACGTTAG 1938
DB 1929 AAGATACCAACGAAAGAGAGAGCCTGAACCTGTCTGTGTGATGTAATTCCTGTAC 1988
QY 1939 AACCTCAGTGTGTACAGCTTTGGCTCACAGGCAACATCGTTCACATGCGGAATCACTC 1998
DB 1989 AGAGACATTACCTGATCTCTGTACGGAAGTTAACACAGGACATGACCA-----TA 2043
QY 1999 ACACCAATTGCAAGACTTGGAATCTTGTGAAATCTGAATGSCACCAATTTTTCTAAC 2058
DB 2044 GCATAGTAGAGCAAAAAATGCGCACCTCAGGA----- 2077
QY 2059 AGCACAATATGACATTTGATGTGGCAATTGAGATGCTCTCTGCAAGACCAAGGCGAC 2118
DB 2078 --CTACTCATATCACTCTGAACCTTGTCAACAGAAATGTGTCTGTGAAGACTCGGGCAC 2135
QY 2119 TATGTTTCTGTCTCAAGATTAAGAAACCAAGAAAGACATTTGCTGTCAACAGCTC 2178
DB 2136 TATGCTCAGAGCGACAGAAACATATACAGGGGAAAGSAYSMKKCGGAAGACAGAAATT 2195
QY 2179 ATCATCTTAAGAGCGATGCAACCCATGATCAACGGAATCTTGAGAAATCAAGCAACACC 2238
DB 2196 CTCGTTAAGATTGGAAGCGCCCACTCTGTCTTCAAAACCTCAGTGAACCAAGAGGTGCC 2255
QY 2239 ATTGGCAGACCATTTGAAGTACCTTGCCAGCATTTGAAATCCATCCCAACATTTACA 2298
DB 2256 ATCAGTGGCTCAACCACTTAACTGTCAAGCTAGAGGTGTCTCTGCGCTCAGATCACT 2315

QY 2399 TGTCTAAAGCAACGAGACCCCTGTAGAAAGATTCAAGCAATTGATCTAGAGATGGGAAC 2358
DB 2316 TGTCTTCAAAAACCAACCAAAAATTAACAAGAACCGGGAATTTATTTAGACACAGAAAC 2375
QY 2359 CGGAACCTGACTATCCGAGGGGTGAGAAAGGATGAGAGGCTCTTACACTCTCCAGGCC 2418
DB 2376 AGCAGCGCTTTTATTTGAAGGTGACAGAAAGATGAGGGGTGCTTAATAGGTGCCAGACC 2435
QY 2419 TGCATGTCTTGGCTGTGCAAGAGCGGAAGCGCTCTTCAATTAATAGAAAGTGGCCAGGAA 2478
DB 2436 ACCAACAGAAAGGGGATGTGGAAGAGCTCAAGCTTACTCACCGTGCAGAAACCTCAGAC 2495
QY 2479 AAGACCAACTTGAAGTCAATTATTCCTGTCCGCACTGCAATGATATTCATGCTTCTTGG 2538
DB 2496 AAGTCAACCTGAGCTGATTAACCTCAACGTCAGTGTGTGGCTGCCACACTCTTTTGG 2555
QY 2539 CTCTTCTTGTGCTATGTCCTTACGGAACGTTTAAAGGGGCAATGAAGGGGAACCTGAAGCA 2598
DB 2556 CTCTTCTTAACTCTTTCATCCGAAACCTGAAGCGTTC--TTCTCCGAAGTAAAGACG 2612
QY 2599 GGCTACTGTCTATTTGTCAATGATTCAGATGAATTTGCCCTTGTGATGAGCGCTGGAACGC 2658
DB 2613 GACTACCTGTATATCATATGACCCAGATGAAGTCCCTCTGATGAGCACTGTGAACGG 2672
QY 2659 TTGCTTATGATGTCACAGATGGGAATTCGCCAGGACCGGCTGAACTTAGAAGAACT 2718
DB 2673 CTGCCCTATGATGCCACAGATGGGATTTGCGGGAGAGACTTAAACTAGGCAATCA 2732
QY 2719 CTTGGCCGGGTGCTTCTCGGCAAGTATGAGGCAAGCTTTTGAATTGAACAAGCA 2778
DB 2733 CTCRAGAGAGGGGCTTTTGGAAAGTGTCTCAGGCTTCGGCATTTGCAATTAGAAATCA 2792
QY 2779 GCGACTTGCAAAACAGTAGCCGTCAAGATGTTGAAGAAAGAGCAACACAGCGAGCAT 2838
DB 2793 CCGCACTGCRGATGTGTGCTGTGAAGATTTGAAAGGGGGGCAACAGCGATGAGTAC 2852
QY 2839 CGAGCCCTCATGTGTGAACCTCAGATCTCATCCCATTTGTCACATCTCAATGTGGTG 2898
DB 2853 AAGCTCTGATGACCGAAGCTTAAGATCTTGACCCACATCGGCCATCTGAATGTGGTT 2912
QY 2899 AACTCTTGAAGCGCTGTCAACAGCCGGAGGGCTCTCATGTGATTTGGAATTTCTGC 2958
DB 2913 AACTCMTGGGAGGTCACACAGCAAGGAGGAGGCTGTGATGATGTAATTAATCTGC 2972
QY 2959 AAGTTTGAAGAACTATCAACTTAATACGGGGCAAGAAATGATTTGTTCCCTAATAG 3018
DB 2973 AAATATGAAACCTGTCTCACTACTTAAGACAAAGTACTTCTGTCTCAACAG 3032
QY 3019 AGCAAGGGGCAAGCTTCCGCGCAGAGGCAAGACTACGTTGGG---GAGCTCTCCGTGAT 3075
DB 3033 GATCAGCGCTTGCAATATGAGACCCAGAAAGAAAGCTGGAGCCAGACCTGGAGACGAGC 3092
QY 3076 CTGAAAAAGAGCTTTGAGCAGATTAACAGAGCCAGAGCTGTCCAGCTCAGGCTTTGT 3135
DB 3093 CAGAAACCCCGCTCAGACAGTGTACGAGCAGCAGAGTTCACACAGCTCCGCGCTTCAG 3152
QY 3136 GAGGAGAAATGCGCTCAGTGAATGTAGAGAAAGAAAGAACTTCTGAAGAACTGAAGAC 3195
DB 3153 GAAGATTAAGATGTAGAGCATGTGAGAGAGAGAGCGAGATTAACAGTGAATCTCCAAGAG 3212
QY 3196 TTCTGACCTTGAAGCATCTCATCTGTTAAGCTTCAAGTGGCTTAAAGGAGATGAGTT 3255
DB 3213 CCCCTCAACATGGAAGACTGATCTCTCAAGTTTCCAAAGTGGCCAGAGCATGAGATT 3272
QY 3256 TTGGCATCAAGAAAGTATTCACAGGAGCTTGGCAGACGAAACATTTCTCTATCGAG 3315
DB 3273 CTGTCTCCAGAAAGTCAATTCAGCGAGCTTGGCAGACGGAACATCTTTTATCTGAG 3332
QY 3316 AAGATGTGGTTAAGATCTGATCTTGGCTTGGCCGGGCAATTTTAAAGCCGGAT 3375
DB 3333 AACATGTGTGAAGATTTGGACTTTGGCTGGCCGGGATTTTATTAAGAACCTTGAT 3392
QY 3376 TATGTCAAGAAAGAGATGCCAGCTCCCTTGAAGTGAATGGCCCGGAAACCAATTTT 3435

OY	4377	GACCTCAGACTGCAGGAGGCTTGGCTCCAGGGATTTTCCAGAGAAAGTGCATGACCA	4436
Db	51778	GACCTCGGACTGCGGGAGGACAGCTCTTCAAGCATATCTTG- GAAAGGCTTGTGACCA	51838
OY	4437	AGAAAT-----GTGTGACTCTACTCTCTTTCCATTCATTATTAAG	4477
Db	51897	AGAAATGTGTGTGTCTTCTCCAGTGTGACCGGATCGCTTTTTCATTCAATTAAAA	51896
OY	4478	TCTATATATATGTGCTCCTGCTGT- GGTTCACTACACAGTTAAAGCAAAAGACTTCAAC	4536
Db	51897	GCATTTATCAAGCCCCCTGCTGCGGGTCTCACATAGGGTTTAAACAAGACGTTCCAA	51956
OY	4537	ACGTGGACTGTGCTCCCAAGAAATGGCAAC-----GGCACTGTGTGAAC	4584
Db	51957	AATGG--CCCATCTCAAGAAAGATACAGTACTGGGGAGCTGACCTTGTGTAAACT	52014
OY	4585	GGATCGAATGGGCAATCTTGTGTGTGTGAGATGGGTGATGTCCAG----GGCCGA	4640
Db	52015	AGAAATTAACCAAGGCAATGTAACTGTTCAGAGTGTGAAGATGGGAAGATTTCAGGG	52074
OY	4641	GTCGTCTACCTTGAAGGCTTTGTGAGAGATGGGCTATG- AGCCAAAGTTAATGTGG	4699
Db	52075	CTGAGTCTATCCAAAGAGGCTTTGTTTGAAGCGTGGGCCCAAGCCTTAAGTGTG	52134
OY	4700	GATGTGACATGGGAGGAAGAGCCGCAAG-----TGGCTGGAGACGGTTGAGACCTG	4754
Db	52135	AATTCGATGTATATGAAGAAAGATACGTATACCTTGTCTTGAAGATATCGAGACCTG	52194
OY	4755	CAGATGCAATGTGTGTGCTCTGCGAGAGTGGGCTTGTGCTGTGAGAAACGCAAG	4814
Db	52195	CAATTCATTTGTCTGTCTGTGTGAGAGTGGGCAATGGGCTGTCTTGAAATGTAAAG	52254
OY	4815	CGGCGGACAGGTTTGTGTTTGAAGGTTTGCCTCTTCAACATGTGGGTTACAGCGA	4874
Db	52255	GTTTCAGA CGGGGTTTCTGTTTTAAGAGTTTGCCTGTCTTCAAGTTGGGCTTAAGTAGA	52314
OY	4875	GTTTCCCTGTGGCTTTCTCTACTCTATATAGAGTTCCTTCCGACCTTAACGTCTCT	4934
Db	52315	GTTTGTGTGTGTGTTTGTGACTCTTATATGAGATGTTCTTCCAAACGGTATACGTCTCT	52374
OY	4935	GGCTGTGCCCCAGGAAAGAAATGATGAGCTGTGCTCTTCTCATCTCTCAGGCTGTGC	4994
Db	52375	GGCCAAAGCCCCAGAGAAAGATATGACGCT--CTGGCTCTTGTCTTCCAGGCTGATCC	52432
OY	4995	TTAATTCAGAACACCAAAAGAGAGACGT--CGGCAAGGCTCTGACGGGCGCAGAG	5052
Db	52433	TTTATTCAGAAATACCAAAAGAAAGCATTCAGCTCAAGGCTCCGCGCGTTGAAAG	52492
OY	5053	ATTGTGAAACAGAACAACTCAGGGTTTCTGTGGGTGAGACCCACGTGCG-----	5107
Db	52493	GTTCTGACTGCACAAACACACTTCTGGTTTCTTCTGAAAGAAATACCTCATATCTGTCC	52552
OY	5108	-----GCCCTGATGGACGTTGTGAGGGTCTGTGCA-----GTGGCGGTA	5149
Db	52553	TGATGTATATGTGTGAGACTGAATGCGGAGGTTCAATGTGAAGCTGTGTGTGTCTCA	52612
OY	5150	AAGGCTCAGGCTGTGTTCTTCTCTATCTCACTC-----TGTCAAGGC	5195
Db	52613	AAGTTTACGAGGAAGATTTAACCTTTGTTCTTCCCTGTCCCAACCACTGTACACC	52672
OY	5196	CCCAAGTCTCAGTATTTTACGTTGTGCTTCTCTGATGGCAGAAAAATCTTAATTTGTT	5255
Db	52673	CGCAACCACTCAGATTTTATGTTATTTGG---CCTCACTCCAGTAAACCTGATGGGTT	52729
OY	5256	GGTTTGTCTTCAGATTAATCACTAAGCCAGATTTTGGAAATTACTTTTAAGCCAGTTAG	5315
Db	52730	TGTTCACTCTCTGATATTAATTAAGCAGACTTCAAAATTAATTTATACCCCA---AAT	52786
OY	5316	ATAATCACTACGTATCTTTAGAAATTTTAACCTATAAACATATGTCTATGGTTCTGC	5375
Db	52787	ATAATCACTATGTATATTTAATTTAGACTTTTAACATATATAGACTATTTCTATGATTTTTC	52846
OY	5376	CTGTGTGCT 5384	

Df	52847 CCTGTCTT 52855	
		RESULT 11
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		; Sequence 6326, Application US/11136527
		; Publication No. US20050287570A1
		; GENERAL INFORMATION:
		; APPLICANT: Wyeth
		; APPLICANT: Mounts, William M
		; TITLE OF INVENTION: Probe Arrays for Expression Profiling of Rat Genes
		; FILE REFERENCE: 031896-041000 (AM10106)
		; CURRENT APPLICATION NUMBER: US/11/136,527
		; CURRENT FILING DATE: 2005-05-25
		; PRIOR APPLICATION NUMBER: US 60/574,294
		; PRIOR FILING DATE: 2005-05-26
		; NUMBER OF SEQ ID NOS: 362830
		; SOFTWARE: PatentIn version 3.2
		; SEQ ID NO 6136
		; LENGTH: 1400
		; TYPE: DNA
		; ORGANISM: Rattus norvegicus
		US-11-136-527-6326
		Query Match 6.9%; Score 369.4; DB 8; Length 1400;
		Best Local Similarity 76.8%; Pred. No. 2.6e-103;
		Matches 658; Conservative 13; Mismatches 127; Indels 59; Gaps 16
Oy	4572 CCTCTGTAACCTGCATCGAATGGAGC-----AATGCTTTGTGTGGAGATGGGTGAG	4623
Df	58 CCTCTGTGAACCTGCATCGAATGAATGGAGCATGTTAGTGCTTTGTGTGTTG--GGATGGGTGAC	116
Oy	4636 ATGCCCAAGGGCCGACGTCGTCTACTCTTGACGCTTTGTGAGAGATGC-GGCTAATGACC	4688
Df	117 ATGCCCAAGGGCTAC---CTTACTTAAAGCTTTGTGAGATGGGCTATGAGCC	172
Oy	4685 AAGTTTAAGTGGAGATGTGACCTGGAGAGAGAAGGCCAAG-TGGCTCGAGAGCG	4743
Df	173 AAGTTTAAATGTAGATGTGACTGGTAAGAGAGAACAGCTGCTCAGAGACG	232
Oy	4744 GTTGAAGCTGACAGATGCATTGTGCTGAGCTGTGTGAGAGGTGGCTTTGTGACTGTACAG	4803
Df	233 GTTGAAGCTGCAATGCATGTGTGCTGCTGTGGAGAGAGATGTGCTGTACAG	292
Oy	4804 AAAGCAAAGCGCGCCGACAGGTTTGGTTTGGAAAGTTTGCCTTCAACATGCG	4863
Df	293 AAACCCAAGCGGCTGTGCGGATTTGGTGGAAAGTT--GCTTGTCTCACGGTTGG	350
Oy	4864 GTTACAGGCGAGTTTCCCTGTGGCGTTTCTTACTCTTAATGAGATGCTTCCGACCTT	4923
Df	351 GCTAC-TGCCAATTCCTGTGTCTGTTCCTA--CCCTAATCAATTCCTGTCCGACCTT	407
Oy	4924 AGTGTCTCTGCGCTTGCCCCAGAGAAAGAAATATGACGTTGCTCTTCTCATCTT	4983
Df	408 ACGTGTCTCCGCGCTTGCCCCAGAGAAAGAAATATGACGCTTGC---TCTCATCTCC	463
Oy	4984 CAGGCTTGCTTAACTTCAAGAACCAAAAAGAGGAACGTGCGCAGAG-----GCTCCT	5033
Df	464 CAGGCTTGCTTAACTTCAAGAAATCTTAAAGAGAGGACCTTTGGCGAGGCTCCGCTCT	523
Oy	5039 GACGCGGCCGGAAGATTGTGAGAACAGAAACAAGAACTCAGGGTTTCTGCTGGTGGAGAC	5099
Df	524 TGTATGTCTGAAGAACTGTGAGAACACACAGAAACTCAGGGTTTCTGTGGTGGATAC	583
Oy	5099 CCACGTGCGCTCTGTGTGACAGGTCTAGAGGTTCTTGTCAAGTGG---CGTAAAGGCT	5155
Df	584 CCACTTGTCTGCGCTGTGTGACAGGTCTGAGAGGTTTGTCAAGTGGCGACCGTAAAGGCT	643
Oy	5156 CAGGCTG-----TGTCTTCTCATATGCCATCTGTGACAGGC-----	5199
Df	644 CAGCAGAGATATCCCTTGTGTCTTCTCTCAATCCCATCTTGTGTGTCACACACCCC	703

5196 -----CCCAAGTCTCAGTATTATTAGCTTTGGCTTCTGTATGGCAGAAAAATCTTAAT 5250
Db CCCCTCCAGAGTGTACGATATTATTAGCTTTGTGSCCAAGTATGGCAGAAAGCTTTAAT 763
Qy 5251 TGGTGGTGGTCTCCAGAT--AATCACTAGCCAGATTTCGAATTAATTTTACCGCA 5308
Db 764 GGTGKTTTGTCTCCAGATAAATCACTAGCTAGATTTCGAATTAATTTATATSCCA 823
Qy 5309 GGTATGATTAACATCTACTGTATCTCTTGAATTTTAACTTAACCTATGATGTACTGG 5368
Db 824 GG-TGTGATTAACATCTACTGTATCTGTTRGA--TTTAACATATAAGCTGSDCKRSTED 881
Qy 5369 TTTGCTGCTGTGCTT 5385
Db 882 TTTTGTGCTGCTT 898
RESULT 12
US-11-136-527-2653
; Sequence 2653, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 2653
; LENGTH: 3816
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2653
Query Match 5.0%; Score 269; DB 8; Length 3816;
Best Local Similarity 53.5%; Pred. No. 7.5e-72;
Matches 564; Conservative 43; Mismatches 418; Indels 30; Gaps 4;
Qy 2661 GCCTTATGATCCCAAGTGGGAATTCCTCCAGGAGCCGCTGAATACTAGAAAACCTCT 2720
Db 1775 RCTTCTTATGAYCAAAATGGAGTTTCCAGAAACAGGCTGATTTTGGAAAACMTT 1834
Qy 2721 TGGCCGCGGTGCTTGGCCCAAGTATGAGCAGACCTTTTGAATGACAGACGC 2780
Db 1835 GGGAGCTGTGCTTGGGAAGTGTGARGCCACTGCMATGCTTATTAAGTCGA 1894
Qy 2781 GACTTGCAAAACAGTAGCCGTCAAGATGTTGAAAAGAGAACACACAGGAGCATCG 2840
Db 1895 TGCTGCAATGACRGTGCGGTGAAGATCTCAACCAAGTGCCTTTAAGCAAGAGA 1954
Qy 2841 AGCCCTCATGTCTGAATCAAGATCTCATCACTGATGATCACTCAATGTGTGA 2900
Db 1955 GGCCTTATGTCTGAACTGAAGTCTCTGACCTGAGTAATCAAGATATGTGTA 2014
Qy 2901 CCTCTAGGCGCTGACCAAGCCGGAAGGCTCTCAATGTGATTTGGAATTTCTGCA 2960
Db 2015 CCTCTGAGGCGCTGACCAAGCCGGAAGGCTCTCAATGTGATTTGGAATTTCTGCA 2960
Qy 2961 GTTTGGAACCTATCACTTACGGGGCAAGGAATGATTTGTTCCCTATTAAG 3020
Db 2072 CTATGTGATCTTTGAAATTTTGAAGAAAGGATCTCTTTATTTTCTCAAGCA 2131
Qy 3021 CAAA-----GGGCAACGCTTCCGCAAGGCAAGCACTGTTGGGAGCTCTC 3068
Db 2132 AGAAGARCAAGCAGAGGCGCTTTAAGAACTTTGCAATCAAGAGAGCTTCTG 2191
Qy 3069 CGTGATTTGAAGAGCCTTGGACAGATCAACGC--AGCAGAGCTCTGCCAGCTCA 3126
Db 2192 TGAAGATCAAAAGATATGATGACATBAAGCTTGGCTTCTTCACTGATGATCA 2251

Qy 3127 GCCTTTGTGAGAGA-----AATCGTCAATGATGTAGAGGAAGAAAGC 3173
Db 2252 GACACAAARAGAGATCCGCAAGATAGATATGATATGAAGAGACGTACCTCTCC 2311
Qy 3174 TTCTGAAGACTGTACAAAGACTTCTGACCTTGGAGCATCTCATCTGTACAGCTTCA 3233
Db 2312 CATCATGAAAGATGACGAGCTGTGTGACCTTGAMGATTTGTGAGCTTCTTACCA 2371
Qy 3234 AGTGCTAAGGCAAGAGCTTCTTGGCAATCAAGAGATATCCACAGGACCTTGAGC 3293
Db 2372 GGTGCAAGGCAAGGCTTCTTGTGCTTCCCAAGATATGATTCACAGATTTGGCAGC 2431
Qy 3294 ACGAAACATTCCTCATCGAGAAAGATGTGTTAAGATCTGTGACTTGGCTTGGCCG 3353
Db 2432 CAGGAATATCTCTTATATACGGGCGGATCAAGAAATTTGCGATTTGSGCTAGCCAG 2491
Qy 3354 GACATTTATTAAGACCCGATTTATGTAGAAAGAGAGATGCGATCTCTTTGAAGTG 3413
Db 2492 AGACATCAAGAAATGATGGAATTAAGTGATTAAGAAAGATGACAGCTGCGCTGAAGTG 2551
Qy 3414 GATGCCCCGGAACCATTTTGAAGATATACATTCAGACCATGTGTGCTTT 3473
Db 2552 GATGCAACCGAGACATTTTCACTGCTGTGACATTTGAAGTGAATGTCTGTGCTTA 2611
Qy 3474 CGGTGTGCTCTGGAATATTTCTTGAAGTCTCTCCATCCCTGAGGCTCAAGAT 3533
Db 2612 TGGATTTTCTCTGAGAGCTTTCTTATGAAGACAGCCCTTACCGAGGATCCGCT 2671
Qy 3534 TGATGAAGATTTGTGAGATTTGAAGAAAGAACTGAATGCGGCTCTGACTAC 3593
Db 2672 CGAATCAAGATTTTCAAGATGATCAAGAGGTTTCCGAATGCTCAGCCCTGAACAGC 2731
Qy 3594 TACCCAGAAATGTACAGACATGCTGATGATGAGACCCCAACAGAGAC 3653
Db 2732 GCCTGCGCAATGATGAAGATTTGAAAGCTTGTGAGATGATCTTCCCTGAAAAAGCC 2791
Qy 3654 CTCGTTTCAGAGTTGTGAGCATTTGGAAAC 3688
Db 2792 AACATTCAGAGCTTGTTCAGCTCATTTGAGAGC 2826

RESULT 13
US-10-821-234-735
; Sequence 735, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andramani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; PRIOR FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: PC SEQ_genes Version 1.0
; LENGTH: 2919
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-735
Query Match 4.6%; Score 250; DB 7; Length 2919;
Best Local Similarity 55.4%; Pred. No. 4.7e-66;
Matches 550; Conservative 0; Mismatches 430; Indels 12; Gaps 3;
Qy 2677 AAGTGGATTTCCCGAGGACCGGCTGAATCTTGGCCGCGGCTTCT 2736
Db 1720 AAGTGGAGTTCCCGGAAACAACTGTGATGTAAGACCTTGGAGCTGAGGCTTT 1779

OY	2737	GGCCAAAGATTTGAGGACGAGCCTTTGGAAATGCAAGACAGCAGCTTGGAAAACATA	2798
Db	1780	GGGAAGTGTGGAGGACACGGCCCTTTGGTCTGGGCAAGAGAGATGCTGTCTGAAGTGG	1839
OY	2797	GCCCTCAAGATGTGTAAGAAAGAGCAACACACAGCGACATCGAGCCCTCATGTCTGA	2856
Db	1840	GCTGTGAAGAATGCTAAGTCCACGGCCCATGTGTGATGGAAGAGAGGCCCTCATGTCCAG	1899
OY	2857	CTCAAGATCTTCATATCAACATTGGTACCATCTCAAATGGTGAACCTCTTAGGGCCCTGC	2916
Db	1900	CTGAAGATCATAGAGCACCTGGGCGCAGACAGAAATCTGTCAACTCTTGGGAGCCCTGT	1959
OY	2917	ACCAAGCCGGGGAGGGCCTCTCAATGGTGAATGGAAATTCGCAAGTTTGGAAACCTATCA	2976
Db	1960	ACC---CATGGAGCCCTGTACTGTGTATCAAGAGTACTGTGCTAATGGAGACCTGCTC	2016
OY	2977	ACTTACTTACGGGGGCAAGAAATGAATTTGTTCCCTAATAGCAAAAGGGGACAGCTTC	3036
Db	2017	AACTTCTTGGCAAGGAAGGCTGAGGCCATGCTGGGACCAACGCTAGAGCCCGCCAGAC	2076
OY	3037	CGCCAGGCGCAAGACTACGTTGGGAGCTCTCCGTGATCTTGAAA--AGACGCTTGAC	3093
Db	2077	CCCGAGGAGGCGTGCATATTAAGAACATTCACCTCGAAGAAATATGTCCGACAGGGAC	2136
OY	3094	AGCATCACAGAGAGCAGACGCTCGGACGCTCAGCCTTGT-----TGAAGAAATATCG	3147
Db	2137	AGTGGCTTCTCCAGCAGGAGTGTGACACTATATGGAGATGAGGCCCTGTCTCCACTTCT	2196
OY	3148	CTCAGTGAATGTAAGGAAGAAAGACTTCTGAAGATCTGTACAAGAACTTCTCTGACCTTG	3207
Db	2197	TCAATATGACTCCTTCTCTGAGCAAGACCTGGACAAGAGAGATGGAAGGCCCTCTGAAGCTC	2256
OY	3208	GAGCATCTCATCTGTTACAGCTTCCAGTGCATAAGGCATGAGATTCTTGGCATCAAG	3267
Db	2257	CGGGACCTGCTCACTTCTCCAGCCAAATACCCAGGCGCATGGCCTTCTCGCTTCCAAG	2316
OY	3268	AAGGTATATCCACAGGGACCTGGGACAGAAACATCTCCATATGGAGAAATATGTGTT	3327
Db	2317	AATTCATATCCACGGGAGGTGGACGCGGTAACTGCTGTTGACCAATGGTCAATGTGGCC	2376
OY	3328	AAGATCTGTGACTTTCGGCTTGGCCCGGACATTTATTAAGACCCGGAATATGTACAGAAA	3387
Db	2377	AAGATGGGAACTTGGGCTGGCTTGAAGGACATCATGATGACTCCAACTAATGTGTCAAG	2436
OY	3388	GGAGATGCCGACTCTCCCTTTGAATGGATGAGCCCGGAAACCAATTTTGTACAGATATAC	3447
Db	2437	GGCATATGCCCTGCTGCTGTGAAGGTGAGTGGCCACAGAGACATCTTGAATGTGTCTAC	2496
OY	3448	ACAATTCAGACGAATGTGTGCTTTTGGGTATGTGCTCTGGGAAATATTTTCTTATAGT	3507
Db	2497	ACGGTATGAGACGATGTGTGCTTATGGACATCTCTCTGTGGAGATCTTCTCACTTGGG	2556
OY	3508	GCTTCCCATATCCCTGGGGTCAAGATTTGATGAAGATTTTGTAGAGATTTGAAGAAAGAA	3567
Db	2557	CTGAATCCCTTACCTTGGGATCTCTGTGTAACAGCAAGTTCTTATACTGTGTGAAGATGGA	2616
OY	3568	ACTGAATATGGGGCTCTGACTATCACTAACCCAGAAATGTACAGACCATATGCTGACTGC	3627
Db	2617	TACCAAAATGGCCACGCTGCAATTTGGCCCAAGAATATATACACATCATATGCAAGCTGC	2676
OY	3628	TGGCATGAGAGCCCAACACAGACCCCTGCTT 3659	
Db	2677	TGGGCTTTGGAGCCACCAAGACCACTT 2708	

RESULT 14
US-11-000-688-358
Sequence 358, Application US/11000688
Publication No. US20050287544A1
GENERAL INFORMATION:
APPLICANT: BERTUCCI, Francois
APPLICANT: HOLLGATTE, Remi
APPLICANT: BIRNBAUM, Daniel

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? TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
?
? FILE REFERENCE: 1423-R-03
?
? CURRENT APPLICATION NUMBER: US/11,000,668
?
? CURRENT FILING DATE: 2004-12-01
?
? PRIOR APPLICATION NUMBER: US 60/525,987
?
? PRIOR FILING DATE: 2003-12-01
?
? NUMBER OF SEQ ID NOS: 1596
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? SOFTWARE: PatentIn version 3.2
?
? SEQ ID NO 358
?
? LENGTH: 3985
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? TYPE: DNA
?
? ORGANISM: Artificial Sequence
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? FEATURE:
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? OTHER INFORMATION: Description of Artificial sequences:primer
?
? FEATURE:
?
? NAME/KEY: misc_feature
?
? LOCATION: (1) ..(3985)
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? OTHER INFORMATION: colony stimulating factor 1 receptor,
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? OTHER INFORMATION: formerly medonough feline sarcoma viral (v-fms)
?
? OTHER INFORMATION: oncogene homolog(CSF1R) gene.
?
? US-11-000-688-358

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Query Match	4.6%	Score 250	DB 8	Length 3985
Best Local Similarity	55.4%	Pred. No. 6e-66		
Matches 550	Conservative 0	Mismatches 430	Indels 12	Gaps 3
Qy	2677	AAGTGGGAATTCCTCCAGGAGCCGGCTAAACTAGAGAAAACCTCTTGGCCGGTGCCTTC	2736	
Db	2012	AAGTGGAGATTCCCGCGGAAACACTCTCAAGTTTGTAAGACCCTTCGAGCTGAGACCTTT	20711	
Qy	2737	GGCCAAGTATGAGCGACGCTTTTGGAAATTGACAAGACAGGACTTGGCAAAACAGTA	27966	
Db	2072	GGGAAGGTGGGAGGCGACGGCTTTTGTCCTGGGCAAGAGAGATGCTGTCTGAAAGGTG	21313	
Qy	2797	GGCGTCAAGATGTGAAGAAGAGCAACACAGGAGCATGAGGCCCTCATGTGAA	28566	
Db	2132	GCTGTGAAGATGCTGAAGTCCAGCGCCCATGCTGATAGAAAGAGGCCCTCATGTCCGAG	21919	
Qy	2857	CTCAAGATTCCTCATTCACATTTGTGCACCATCTCATGTGTGAACTCTTCTAGCGGCTGC	29168	
Db	2192	CTGAAGATTCATGAGACCACCTGGGCGACAGAGAACATCGTCAACCTTCTGGAGCGCTGT	22511	
Qy	2917	ACCAAGCCGGAGGGCTTTCATGTGTGATGTGGAATTTGCAAGTTTGAACCTTATCA	29767	
Db	2252	ACC---CATGAGGCGCTGTACTGTGTCATCAAGAGTACTGTGTTCTATGCGGACTGTGC	23080	
Qy	2977	ACTTACTTACGGGGGACAGAGAAATGAAATTTGTTCCCTATATAGAGCAAAAGGGGACGCTTC	30366	
Db	2309	AACTTTCTGGGAAGGAAGGCTGAGGCCATGCTGGGACCACGCTGACCCCGGCAGAGAC	23688	
Qy	3037	CGCCAGGGCAAGAGACTACGTTGGGGAGACTCTCCGTGATCTGAAA---AGACGCTTGGAC	30933	
Db	2369	CCCGAGGAGAGCGTCGACTATAGAACATCATCACCCTCGAGAAAGAAATATGTCCGAGGGAC	24288	
Qy	3094	AGCATCACACGACCCAGAGCTCTGCAGCTCAGGCTTTGT-----TGAAGAGAAATCG	31477	
Db	2429	AGTGGCTTTCACGCGAGGGGTGGACACCTATGTGAGATGAGGCGCTGTCTCCACTTCT	24888	
Qy	3148	CTCAGTATGTAGAGGAAGAAAGCTTCTGAGAACTGTACAGAACTTCTTCACTTGC	32077	
Db	2489	TCAATATACCTCTTCTCTGAGCAAGACCTGGACAGAGAGATGAGCGGCCCTTGGAGTCC	25488	
Qy	3208	GAGCATTCATCTGTTTACAGCTTCCAAAGTGGCTTAAGGGCACTGAGATTCTTGGCATCAAG	32677	
Db	2649	CGGACCTGCTTCACTTCTCCAGCAAGTACCCAGGGCAGTGGCTTCTGCTTCCAAAG	26080	
Qy	3268	AAGTGTATCCACAGGGACCTGGAGCAAGAAATTTCTCTATCTGGAAGAAATGTGTT	33277	
Db	2609	AATTGATTCACCGGGACGTGGACGCGCTATACGTGTGTAACCAATGTGCACTGTGGCC	26688	
Qy	3328	AAGATCTGTGATCTTGGGCTTGGCCCGGAGACATTATTAAGAACCCGGAATTATGTCAAAA	33877	
Db	2669	AAGATTGGGGACCTTCGGGCTGGCTAGGGGAATCATGATATACCTCACTCATTTGTCAAG	27288	

OY	3388	GGAAATGCCCAATCCCTTTGAAAGTAAATGGCCCGGAAACCAATTTTGAACAGATATAC	3447
Db	2729	GGCAATGCCCCCTCCCTGTGTAAGTGAATGGCCCGAGAGACATCTTGACTGTGTCTAC	2788
OY	3448	ACAATTCAAGAGGATGTGTGTCCTTTCGATGTGTCCTGCGAANAATTTTCTCTAGCT	3507
Db	2789	ACGGTTTCAGAGGACGCTGTGGTCCATATGGCATCTCCCTCTGGGAGATCTTCTCAGTTGGG	2848
OY	3508	GCCTCCCAATACCCCTGGGGTCAAGATGATGAAGAATTTTGTAGAGATTTGAAGAAAGA	3567
Db	2849	CTGAATCTCTTACCTCGGACATCTGTGTGAACAGACAGTTCTTTAACTGTGTAAGATGA	2908
OY	3568	ACTAGAATGCGGGCTCTGTACTACACTACCCCAAGAAATGTACAGAACCATCTGACTGC	3627
Db	2909	TACCAAAATGGCCACGCTGCAATTTGGCCCAAGAATATATACAGCATCATCAAGCCCTGC	2968
OY	3628	TGGCATGAGGACCCCAACAGAGCCCTCGTT	3659
Db	2969	TGGGCTTTGGAGCCCAACCAAGACCCACCTT	3000

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RESULT 15
US-11-136-527-3400
; Sequence 3400, Application US/11136527
; Publication No. US2005028750A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031696-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; PRIORITY FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: 05-6/574,294
; PRIORITY FILING DATE: 2005-05-26
; NUMBER OF SEQ. ID NOS: 362830
; SOFTWARE: Patentin version 3.2
; SEQ. ID NO. 3400
; LENGTH: 3679
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-3400

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Query Match	4.6%	Score 249.4	DB 8	Length 3679
Best Local Similarity	55.2%	Pred. No. 8.7e-66		
Matches 553, Conservative	0	Mismatches 436	Indels 12	Gaps 3

QY	2677	AAAGGGGAAATTC	CCGAGGAGCCG	GTGAACTAG	AGAAAACCTCTG	CGCGGTCCCTT	2733
Db	1789	AAAGTGGAGTTCC	CTCGGAAACA	CTGCAGTTTGGT	TAAGACTCTT	TGAGGCCGTCTTT	1846
QY	2737	GGCCAAAGTAT	TGAGGACGACG	CTTTTGGAAAT	TGACAAACAG	GCACCTTGCAAAACAGTA	2796
Db	1849	GGGAAGTGTGTG	AGAGCTTACAG	CCCTTGTGGG	CAAGAAAGATG	CAGTGTGAAGTG	1908
QY	2797	GCCGTCAAGAT	GTGTGAAAGAG	AGACAAACA	CACAGCAGACAT	TCGAGCCCTCATGTCTGAA	2855
Db	1909	GCTGTGAAGAT	GTCTAAAGTCC	ACGCGCTCAT	GTGTATGAAAG	AGAGGCCCTGTATGTCAAGG	1966
QY	2857	CTCAAGATCCT	CATCCACATTG	TGTCACCAT	CTCATGTGTGAA	CCTCTTAGCGCCTGC	2916
Db	1969	CTGAAGATCAT	GTAGTCACTGG	AGCAGACGAG	CAATATAGTCA	ACCTCTTGGAGACCTGT	2022
QY	2917	ACCAAGCCGGAG	GGGCGCTCTCAT	GTGTATTTGTG	AAATTCGCA	ATTGTGAAACCTATCA	2976
Db	2029	AC---	TCAGGAGGAC	CTGTCCGTCTCA	CTGAATCTC	GTCTGTATGAGACCTACTC	2085
QY	2977	ACTTACTTAC	CGGGGCAAGAA	ATGAATTTGTTCC	CTTAAGAGCA	AAAGGGGACGCTTC	3038
Db	2086	AACTTTCTCC	CAAGAGAGCG	AGGCTATGTAG	AGACCCAGCGT	AGTCTGTGTCAAGAC	2145
QY	3037	CGCCAGGSCAA	AGACTACGTT	GGGAGCTCC	GTGATCTGAA	---AGACGCTTGGAC	3093

Dp	2146	TCGAGGGGAGCTCAGCTAACAGAACATCCACCTGGAGAGAAATATGTGCGAGGGAC	2205
Qy	3094	AGCATCACACAGACGCCAGAGCTCTGCGACGCTCAGGCTTTGT-----TGAGAGAAATGC	3147
Dp	2206	AGTGGCTTCTCCAGTCCAGGAGGTGTAGACACTACGTGAGAGAGGCGCTGTCTCCACTTCT	2265
Qy	3148	CTCAGTGAATGTAGAGAAAGAAAGCTTCTAAGAACTGTACAGACCTTCTCAGCTTG	3207
Dp	2266	TCMGTGACTCTCTTCTTTAGCCMAGATGTGACAAAGAACCGAGCGGCGCCCTTGAGCTC	2325
Qy	3208	GAGCATCTCATCTGTTCACGCTTCCAACTGAGCTAAGGAGCATGAGATTCTTGACATCAAG	3267
Dp	2326	TGGGACCTGCTCCACTTCTCCAGCCAAAGTGGCTCAGGGCATGGCTTCTTGCTTTAA	2385
Qy	3268	AAGTGATTCACAGAGACCTGGCAGCACAGAAACATTCTCTATGTGAGAAAGATGTGTT	3327
Dp	2386	AACGTGATCCACCGGAGAGTAGCAGCTCGAAACGTGCTGTGGACAGCGGACATGTGGCC	2445
Qy	3328	AAGATCTGTGACTTCGGCTTGCGCCCGGAGCAATTTATTAAGACCCGGAATTATGTAGAAA	3387
Dp	2446	AAGATTTGGGACTTTTGACGTGGCTTAGGAGACATCATGATGACTCCAACTATGTGTCAAG	2505
Qy	3388	GGAGATGCCGACTCCCTTTGAAAGTGAATGGCCCCGGAAACCAATTTTGAACAAGTATAC	3447
Dp	2506	GGCATATGCCCGCTGCTGTAAAGTGAATGGCCCCAAGAGACATCTGTACTGCGGTAC	2565
Qy	3448	ACAATTCAGAGCAATGTGTGTCTTTGGGTGTGTGCTCTGGGAAATATTTTCTTGTAGT	3507
Dp	2566	ACAAGTTACAGATGATGTGTGTCTTACGGGACCTCTCTGGGAGATCTTCTGCTTGTGT	2625
Qy	3508	GCCATCCCATATCCCTGGGGGTCAAGATTGATGAAGAAATTTTGTAGAGATTGAAGAAAGA	3567
Dp	2626	CTGAACCCCTTACCCCGGCATCTGTGTAACAACAAGTTCTTACAAACTGTGTAGAGATGA	2685
Qy	3568	ACTAGAAATGGGGGCTCTGACTACACTACCCCAAGAAATGTACAGACCATGTGAGACTGC	3627
Dp	2686	TACCAAAATGGCCACGCTGTATTTTGACCCGAGAAACATATACAGCATCATGACTCTGC	2745
Qy	3628	TGGCATAGAGACCCCAACAGAGACCTCGTTTCAAGATT	3668
Dp	2746	TGGGACTGTGAGCTTACAGAAAGCCCACTTCCAAACGAT	2786

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Job time : 814 secs

Job time : 814 secs

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OM protein - protein search, using sw model

Run on: January 30, 2006, 11:45:09 ; Search time 28 Seconds
(without alignments)
3971.385 Million cell updates/sec

Title: US-10-090-183-6

Perfect score: 7046
Sequence: 1 MESKALLAVLWFCVETRAA.....KVVDAVHADSGTTLRSPV 1345

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents, AA:*

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- 2: /cgn2_6/prodata/1/1aa/6 COMB.pep:*
- 3: /cgn2_6/prodata/1/1aa/H COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	7020	99.6	1367	1	US-08-443-861-2
2	7020	99.6	1367	2	US-08-193-8298-2
3	6994	99.3	1367	1	US-09-766-678-2
4	6994	99.3	1367	1	US-07-813-593-4
5	6994	99.3	1367	1	US-07-977-451-6
6	6994	99.3	1367	1	US-07-946-507-4
7	6994	99.3	1367	1	US-08-252-517-6
8	6994	99.3	1367	1	US-07-906-397A-6
9	6994	99.3	1367	1	US-08-601-891-6
10	6994	99.3	1367	1	US-09-021-324-6
11	6994	99.3	1367	2	US-09-872-136B-6
12	6994	99.3	1367	2	US-09-919-408A-6
13	6994	99.3	1367	4	PCT-US92-02750-8
14	6994	99.3	1367	4	PCT-US92-05401-6
15	6994	99.3	1367	4	PCT-US92-09893-6
16	6127.5	87.0	1356	2	US-09-098-707A-2
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22	6102.5	86.6	1356	1	US-08-810-116-8
23	6102.5	86.6	1356	1	US-07-930-548A-8
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25	4328	60.0	806	2	US-08-193-8298-5
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27	4196	59.6	805	2	US-08-985-526-34

28	3327.5	47.2	788	1	US-08-232-538-15	Sequence 15, Appl
29	3327.5	47.2	788	1	US-08-786-164-15	Sequence 15, Appl
30	3248	46.1	764	2	US-09-142-956B-14	Sequence 14, Appl
31	3245	46.1	767	1	US-08-874-678-2	Sequence 2, Appl
32	3245	46.1	767	2	US-08-643-839-2	Sequence 2, Appl
33	3245	46.1	767	2	US-09-348-886-2	Sequence 2, Appl
34	3245	46.1	767	2	US-10-105-901A-2	Sequence 2, Appl
35	2792	39.6	668	1	US-08-232-538-13	Sequence 13, Appl
36	2792	39.6	668	1	US-08-786-164-13	Sequence 13, Appl
37	2746.5	39.0	1363	2	US-09-375-248-19	Sequence 19, Appl
38	2733.5	38.8	1368	1	US-08-874-678-34	Sequence 34, Appl
39	2733.5	38.8	1368	2	US-08-643-839-34	Sequence 34, Appl
40	2733.5	38.8	1368	2	US-09-348-886-34	Sequence 34, Appl
41	2733.5	38.8	1368	2	US-10-105-901A-34	Sequence 34, Appl
42	2694.5	38.2	1338	2	US-08-750-141A-3	Sequence 3, Appl
43	2694.5	38.2	1338	2	US-09-119-014D-6	Sequence 6, Appl
44	2691.5	38.2	1362	1	US-08-874-678-33	Sequence 33, Appl
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ALIGNMENTS

RESULT 1
US-08-443-861-2
; Sequence 2, Application US/08443861
; Patent No. 5851999
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Rissau, Werner
; APPLICANT: Millauner, Birgit
; APPLICANT: Gazit, Aviv
; APPLICANT: Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; TITLE OF INVENTION: Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESSES:
; ADDRESSES: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/443,861
; FILING DATE: 22-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/193,829
; FILING DATE: 09-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-443-861-2
Query Match 99.6%; Score 7020; DB 1; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;

Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Db 61 WLPWNAQDSBEERVLVTECGGDSIFCKTLTI PRVVGNDTGAYKCSYRDVDIASTVYVV 120
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Oy 181 WDESEIGFLPSYMSIYAGVFCFAKINDETYOSIMYIVVVGYRIYDYLSPHIEISA 240
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Oy 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKKIVNRDVKPPGTVAKMLSTLTIESVT 300
Db 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKKIVNRDVKPPGTVAKMLSTLTIESVT 300
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Oy 421 VPPOIGERALLISPMDSYQYGMQTLCTVYANPPLHHI QMTWQLEACSYRPGQTSYAC 480
Db 421 VPPOIGERALLISPMDSYQYGMQTLCTVYANPPLHHI QMTWQLEACSYRPGQTSYAC 480
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Oy 541 ISFHVIRPEITVOPPAOPTQESVSLCTADRNTFENLTWKLGSAQTSVHMGESLTPV 600
Db 541 ISFHVIRPEITVOPPAOPTQESVSLCTADRNTFENLTWKLGSAQTSVHMGESLTPV 600
Oy 601 CKNDALWKLNGTWFNSSTNDILIVAFONASLQDGDYVCSAODKTKYKRLCLVYKOLLIL 660
Db 601 CKNDALWKLNGTWFNSSTNDILIVAFONASLQDGDYVCSAODKTKYKRLCLVYKOLLIL 660
Oy 661 ERMAPMITGNLENOTTIGETIEVTCPSAGNPPIITWFKONETLVEDSGIVLRGNNL 720
Db 661 ERMAPMITGNLENOTTIGETIEVTCPSAGNPPIITWFKONETLVEDSGIVLRGNNL 720
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Db 721 TIRVRKEDGGLYTCOACNVLGACARAETLFIIEGAQEKTNLEVIILVGTAVIAMPFILL 780
Oy 781 VIIVRTVGRANEGELKTGYSIIVMDPDELPLDERCERLPYDASKWEPFRDRLKLGKPIGR 840
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Oy 841 GAFQGVLEADAFGIDKTATCTKTVAVKMLKEGATSEHSHALMSELKILHIGHHLNVNLL 900
Db 841 GAFQGVLEADAFGIDKTATCTKTVAVKMLKEGATSEHSHALMSELKILHIGHHLNVNLL 900
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Db 901 GACTKPGGPLVNIYEFCKFGNLSTYLGRKNEFVYKSKGARFGQKDYVELSYDLGR 960
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Db 961 LDSITSSQSSASASGFEKESLSDVEEESASELYKDFLTLEHLICYSFOVAKGMEFLASR 1020
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Db 1021 KCIHRDLAARNVILSEKRVVNICOPGLARDIYKOPDYVRKRDARLPLKMAPEITIFDRVY 1080

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Oy 1141 WHEDPNORPSPSELVEHIGNLLOANAOQGDYIVLPMSEFTLSMEEDSGLSLPSVSCM 1200
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Db 1201 EEEVCDPKFHYDNTAGISHYLONSKRKSRPVSVKTFEIDPLEBEVAVIIPDSDQTDSCM 1260
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Oy 1321 EAGLLKRVDAVHADSGTTLR 1341
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RESULT 2

US-08-193-829B-2

; Sequence 2, Application US/08193829B

; Patent No. 6177401

; GENERAL INFORMATION:

; APPLICANT: Ulrich, Axel

; APPLICANT: Millauef, Werner

; APPLICANT: Gazit, Aviv

; APPLICANT: Levitzki, Alex

; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular

; TITLE OF INVENTION: Endothelial Growth Factor

; NUMBER OF SEQUENCES: 6

; CORRESPONDENCE ADDRESS:

; ADDRESS: Pennie & Edmonds

; STREET: 1155 Avenue of the Americas

; CITY: New York

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 10036-2711

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/193,829B

; FILING DATE: 09-FEB-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Coruzzi, Laura A.

; REGISTRATION NUMBER: 30,742

; REFERENCE/DOCKET NUMBER: 7683-060

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212)790-9090

; TELEFAX: (212)869-9741

; TELEX: 66141 PENNIE

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1367 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-08-193-829B-2

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Query Match 99.6%; Score 7020; DB 2; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
1 MESKLLAVLWFCVETRAASVGLTDFLHPKJSTOKDILITLANTTLOITCRGQRD 60

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Db 721 TIRVRKEDDGLYTCQACNVLCARAE TLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL 780
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Db 781 VIVLRTVVRANGELKTGYLSTVMPDDELPLDERGERL PYDASKNEFPDRKLCKGPKLR 840
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Db 841 GAFQGVIEADAFGIDKTAICTKVAIVKMLKEGATSEHRLMSELKILHIIGHILNVNLL 900
Qy 901 GACTYRGPBLMYIVEFCCKFGNISTYLRGRKNEFVYKSGARFRQCKDYVGLSVDLKRR 960
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Db 961 LDSITSSQSSASGVEEKSLSDVEEESASELYNDFLLEHLICYSQVNAAGMFLASR 1020
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Db 1321 EAGLKMVDAVAHADSGTTLQ 1341

RESULT 3
US-09-766-678-2
Sequence 2, Application US/09766678
Patent No. 6872639
GENERAL INFORMATION:
APPLICANT: Ullrich, Axel
Riseau, Werner
Milaue, Birgit
Gazit, Aviv
Levitzki, Alex
TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular Endothelial Growth Factor
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Penie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678
FILING DATE: 25-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-766-678-2

Query Match 99.6%; Score 7020; DB 2; Length 1367;
Beet Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MESKALLAVLWFCVETPAASVGLTGDFLHPPKLSTOKDILITLANTLTQTCRGQDLD 60
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Db 61 WLMFPAQDSEBERVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRDVDASTVYVYV 120
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Db 181 WDESIGFLPSYMTSYAGNVFCEAKINDETOSIYIVVYGYRHYDYLSPHIELISA 240
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Db 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIVNRDVKPPGTVAKMFLLTILIESVT 300
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Db 361 APDIKMYNRPRESNYTMIYVDELTIMEVTERDAGNTVILINPISMEKOSHMSVLVN 420
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Db 481 KEMHVEDPFGANKIEVTKNOYALIEGKKTIVSTLVIOANVSALYKEAINKAGRGGRV 540
Qy 541 ISFHVIRPELTIVOPPAOFTBOESVSLCTADRNFTENLVYKLGSOATSVHMBESLTPV 600
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Qy 601 CKNDALMKNLGMTFSNSTNDILIVAFONASLQDGDYVCSAODKTKRKLCKLVKQIIL 660
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Db 721 TIRVRKEDGGLYTCQACNVLGCAARETLFIIIEGAEKTNLEVIILVGTAVIANFEMILL 780
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Qy 961 LDSITSSQSSASGPFVEEKSLSDVEEBEASELYKDFLLEHLI CYSFOVAKGMEFLASR 1020
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Qy 1201 EEEVCPKFRHYDNTAGISHLONSKRKSRVSVKTEEDIFLEBPVKVYIPDDSGTDSGM 1260
Db 1201 EEEVCPKFRHYDNTAGISHLONSKRKSRVSVKTEEDIFLEBPVKVYIPDDSGTDSGM 1260
Qy 1261 VLASEELKLEDRKCLSPSPCGMMPKSRRESVASEGNSQTSYGOSGYHSDPTDTTVYSSD 1320
Db 1261 VLASEELKLEDRKCLSPSPCGMMPKSRRESVASEGNSQTSYGOSGYHSDPTDTTVYSSD 1320
Qy 1321 EAGLLKRVDAVHADSGTTLR 1341
Db 1321 EAGLLKRVDAVHADSGTTLR 1341

RESULT 4
US-07-813-593-4
Sequence 4, Application US/07813593
Patent No. 5185438
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMCIONE SYSTEMS INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/813,593
FILING DATE: 19920415
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SRO ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-813-593-4
Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
Qy 1 MESKALLAVLWFCVETPAASVGLTGDFLHPPKLSTOKDILITLANTLTQTCRGQDLD 60

Db 1 MESKGLAVALMFCVETRAASVGLPBDPLHPPKLSQKDLITLANTTLQITCRGRDLD 60
Qy 61 WLPNPAQRSEBRVLVTECGGSDSIFCKTLITI PRVVGNDTGAKCSYRPVDIASTYYVY 120
Db 61 WLPNPAQRSEBRVLVTECGGSDSIFCKTLITI PRVVGNDTGAKCSYRPVDIASTYYVY 120
Qy 121 RDRSPFIASVDQHGIVYITENKNTVVI PCRGSI SNLNSLCARYPEKRPVDPGNRIS 180
Db 121 RDRSPFIASVDQHGIVYITENKNTVVI PCRGSI SNLNSLCARYPEKRPVDPGNRIS 180
Qy 181 WSEIGFTLPSYMIASVAGVFPCEAKINDTQOSIMIVYVVGRIYDVILSPHELELSA 240
Db 181 WSEIGFTLPSYMIASVAGVFPCEAKINDTQOSIMIVYVVGRIYDVILSPHELELSA 240
Qy 241 GEKLVNCTARTELNVLGDLFTWHSPPSKSHKKI VNRDVKPPPGYAKMFLSTLTIESYT 300
Db 241 GEKLVNCTARTELNVLGDLFTWHSPPSKSHKKI VNRDVKPPPGYAKMFLSTLTIESYT 300
Qy 301 KSDGEYTCVASSGRMICKNRTFVRVHTKPFIAFGSGMSLVEATVSGVRIPVKYLSYP 360
Db 301 KSDGEYTCVASSGRMICKNRTFVRVHTKPFIAFGSGMSLVEATVSGVRIPVKYLSYP 360
Qy 361 APDITMYRGRPIESNYTMI VGDDELTIMEYTERDAGNTVVIITNPI SMKOSHMTSLVN 420
Db 361 APDITMYRGRPIESNYTMI VGDDELTIMEYTERDAGNTVVIITNPI SMKOSHMTSLVN 420
Qy 421 VPOIGEKALISPMDSYOYGTWQTLCTYANPPLHHIOMQOLEBACSYRGQTSYPAC 480
Db 421 VPOIGEKALISPMDSYOYGTWQTLCTYANPPLHHIOMQOLEBACSYRGQTSYPAC 480
Qy 481 KEMRVEDFOGKNKIEVTKNOYALIEGKNKTSTLVIOANVSALYKCAINKAGREYV 540
Db 481 KEMRVEDFOGKNKIEVTKNOYALIEGKNKTSTLVIOANVSALYKCAINKAGREYV 540
Qy 541 ISFHVIRGEPEITVOAPAQPTBOESVSLCTADRNTEFNITWYKLSQATSHMGESLFEV 600
Db 541 ISFHVIRGEPEITVOAPAQPTBOESVSLCTADRNTEFNITWYKLSQATSHMGESLFEV 600
Qy 601 CNLMLAMKLTNGTMSNSTNDILIVAFOVASLODQDVCASQODKTKRHCLVNLQTL 660
Db 601 CNLMLAMKLTNGTMSNSTNDILIVAFOVASLODQDVCASQODKTKRHCLVNLQTL 660
Qy 661 ERMAEMITGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETHVEDSGIVLRGNRL 720
Db 661 ERMAEMITGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETHVEDSGIVLRGNRL 720
Qy 721 TIRRVKEDGGLYTCQACNVLCARAEFTLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL 780
Db 721 TIRRVKEDGGLYTCQACNVLCARAEFTLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL 780
Qy 781 VILVLTVRANGELKTGYLSTVMPDDELPLDERCERLPYDASKNEFPDRILKQKPLCR 840
Db 781 VILVLTVRANGELKTGYLSTVMPDDELPLDERCERLPYDASKNEFPDRILKQKPLCR 840
Qy 841 GAFQGVIBADAFGIDKTATCKTVAVMMLKEGATSEHRLAMSELKILHIIGHILVNVLL 900
Db 841 GAFQGVIBADAFGIDKTATCKTVAVMMLKEGATSEHRLAMSELKILHIIGHILVNVLL 900
Qy 901 GACTRPGPPLMWIVEFCRFGNLSTYLRGRKNEFVYKSGARFROGKDVYVGLSYDLKR 960
Db 901 GACTRPGPPLMWIVEFCRFGNLSTYLRGRKNEFVYKSGARFROGKDVYVGLSYDLKR 960
Qy 961 LOSTSSSSSSASSGVEEKSLSLSDVEEESSELYDQFLTEHLICYSFVNAKGMFLASR 1020
Db 961 LOSTSSSSSSASSGVEEKSLSLSDVEEESSELYDQFLTEHLICYSFVNAKGMFLASR 1020
Qy 1021 KCIHDLAARNILSEKVVVVICDFGLARDIYKDPYRKAGDARLPKMMABETIFDRY 1080
Db 1021 KCIHDLAARNILSEKVVVVICDFGLARDIYKDPYRKAGDARLPKMMABETIFDRY 1080
Qy 1081 TIQSDVMSFGVLWEIFSLGASPYPGVKIDEEFCRLKEGTRABADYTTPEMYOTMLDC 1140
Db 1081 TIQSDVMSFGVLWEIFSLGASPYPGVKIDEEFCRLKEGTRABADYTTPEMYOTMLDC 1140

Qy 1141 WHEEDNQRPSFSELYEHGNLLQANAQODGKDYI VLPMSSETLSMEEDSLSTPSVSCM 1200
Db 1141 WHEEDNQRPSFSELYEHGNLLQANAQODGKDYI VLPMSSETLSMEEDSLSTPSVSCM 1200
Qy 1201 EEEVCDPKFHYDNTAGISHYLONSKRSPVSKTFEDI PLEEPYKVI PDDSGTDSGM 1260
Db 1201 EEEVCDPKFHYDNTAGISHYLONSKRSPVSKTFEDI PLEEPYKVI PDDSGTDSGM 1260
Qy 1261 VLAASELKTLEDNRNLSPSFGGMPKSKRESVASEGNSOTSGYSGYHSDDTDTTVYSSD 1320
Db 1261 VLAASELKTLEDNRNLSPSFGGMPKSKRESVASEGNSOTSGYSGYHSDDTDTTVYSSD 1320
Qy 1321 EAGLKMYDAVAHADSGTTLR 1341
Db 1321 EAGLKMYDAVAHADSGTTLQ 1341
RESULT 5
US-07-977-451-6
Sequence 6, Application US/07977451
Patent No. 5270458
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varlick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/977,451
FILING DATE: 19921119
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US UNASSIGNED
FILING DATE: 12-NOV-1992
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Irving N.
REGISTRATION NUMBER: 28,601

REFERENCE/DOCKET NUMBER: LEM-3-7P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-645-1405
 TELEFAX: 212-645-2054
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1367 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-07-977-451-6

Query Match 99.3%; Score 6394; DB 1; Length 1367;
 Basic Local Similarity 99.6%; Pred. No. 0;
 Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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QY 1 MESKALVALMFCVETRAASVGLTGDPLHPPKLTSGDILTLANTTLQITCRGQRDL 60
DB 1 MESKGLLVALMFCVETRAASVGLTGDPLHPPKLTSGDILTLANTTLQITCRGQRDL 60
QY 61 WLPNPAQSDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYRDVDASTVYVV 120
DB 61 WLPNPAQSDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYRDVDASTVYVV 120
QY 121 RDYSPFPLASVSDQGIYITENKKTIVIPCRGSI SMLANVSLCARYEKAFVDPGNRIS 180
DB 121 RDYSPFPLASVSDQGIYITENKKTIVIPCRGSI SMLANVSLCARYEKAFVDPGNRIS 180
QY 181 WDSEIGFLPSYMTSYAGNVFCEAKINDETYSIMYIVVVGYRKYDYLSPHEIELSA 240
DB 181 WDSEIGFLPSYMTSYAGNVFCEAKINDETYSIMYIVVVGYRKYDYLSPHEIELSA 240
QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHHKIVNRDVKPFGTVAKMPLSTLTIESVT 300
DB 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHHKIVNRDVKPFGTVAKMPLSTLTIESVT 300
QY 301 KSDGERTCVASSSGMIRKNTFVRVHTKPFIAFGSKMSLVEATVSGVRIPVKYLSYP 360
DB 301 KSDGERTCVASSSGMIRKNTFVRVHTKPFIAFGSKMSLVEATVSGVRIPVKYLSYP 360
QY 361 APDIKMYNRGRPISSNYTMIAGDELTIMEVTERDAGNTVLTLPISKEKSHVSLVNN 420
DB 361 APDIKMYNRGRPISSNYTMIAGDELTIMEVTERDAGNTVLTLPISKEKSHVSLVNN 420
QY 421 VPPOIGEKALISPNDVYQGTMTLTCTVYANPPLHIIQWMOLEACSYRPGOTSPYAC 480
DB 421 VPPOIGEKALISPNDVYQGTMTLTCTVYANPPLHIIQWMOLEACSYRPGOTSPYAC 480
QY 481 KEMHVEDFQGNKI EYTKNOYALIEGNKTVSTLVIOANVSALYKCEALINKAGRGERV 540
DB 481 KEMHVEDFQGNKI EYTKNOYALIEGNKTVSTLVIOANVSALYKCEALINKAGRGERV 540
QY 541 ISFHVIRGEPLTVPAAQPTBOESVSLCTADRNTFEULTYKKGSOATSVHMEBSLTPV 600
DB 541 ISFHVIRGEPLTVPAAQPTBOESVSLCTADRNTFEULTYKKGSOATSVHMEBSLTPV 600
QY 601 CKNDALMKNLGTWFSNSTNDILIVAFONASLQDQGVVCSAODKTKKRCCLVKQLIIL 660
DB 601 CKNDALMKNLGTWFSNSTNDILIVAFONASLQDQGVVCSAODKTKKRCCLVKQLIIL 660
QY 661 ERMAPMTITGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEBSGIVLDRGNRL 720
DB 661 ERMAPMTITGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEBSGIVLDRGNRL 720
QY 721 TIRVRKEDDGLYTCQACNVVGCAAEFTLFTIEGAEKTNLEVIIVGSTAVIANFPWILL 780
DB 721 TIRVRKEDDGLYTCQACNVVGCAAEFTLFTIEGAEKTNLEVIIVGSTAVIANFPWILL 780
QY 781 VIVLRTVRANEGELKTGYLSIWDPDDELPLDERCERLPYDASWEPFRDLTKGKPLGR 840
DB 781 VIVLRTVRANEGELKTGYLSIWDPDDELPLDERCERLPYDASWEPFRDLTKGKPLGR 840
QY 841 GAFQCVLEADAFGIDKTAATCTVAVVKMLKEGATSHSRALMSELKILIHGHNLVNNLL 900
  
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DB 841 GAFQCVLEADAFGIDKTAATCTVAVVKMLKEGATSHSRALMSELKILIHGHNLVNNLL 900
QY 901 GACTKPGPLMVIYEFCKFGNLSTYLRGKNEFPPYKSGKARFQGDYVGLSELVDLRR 960
DB 901 GACTKPGPLMVIYEFCKFGNLSTYLRGKNEFPPYKSGKARFQGDYVGLSELVDLRR 960
QY 961 LDSITSSQSSASGCFVEEKSISDVEEBEASBELYKDFLTLEHLICYSFOVAKGMEFLASR 1020
DB 961 LDSITSSQSSASGCFVEEKSISDVEEBEASBELYKDFLTLEHLICYSFOVAKGMEFLASR 1020
QY 1021 KCHRDLAARIIILSEKNVVKICDFGLARDIYKDPDVRKCDARLPLKMAPEITFDKRV 1080
DB 1021 KCHRDLAARIIILSEKNVVKICDFGLARDIYKDPDVRKCDARLPLKMAPEITFDKRV 1080
QY 1081 TIQSDVMSFGVLMWEISLGSPPYGVKIDEEFCRLKEGTRMAPDYTTTPEMTQMLDC 1140
DB 1081 TIQSDVMSFGVLMWEISLGSPPYGVKIDEEFCRLKEGTRMAPDYTTTPEMTQMLDC 1140
QY 1141 WHEDPNRPSFSELVEHLGNLQANAOQDKDYIVLPMSETLSMEEDSGLSLPTSVPSCM 1200
DB 1141 WHEDPNRPSFSELVEHLGNLQANAOQDKDYIVLPMSETLSMEEDSGLSLPTSVPSCM 1200
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DB 1201 EEEVCPKPHYDNTAGISHLQNSKRKSRPVYKTFEDTIPLEEPYKVIIPDDSGTDSGM 1260
QY 1261 VLAASELKTLEDRNKLSPSFGMMPSKRSRESVASEGSNQISGYSGYHSDDTPTTVYSSD 1320
DB 1261 VLAASELKTLEDRNKLSPSFGMMPSKRSRESVASEGSNQISGYSGYHSDDTPTTVYSSD 1320
QY 1321 EAGLLKMYDAAVHADSGTTLR 1341
DB 1321 EAGLLKMYDAAVHADSGTTLQ 1341
  
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RESULT 6
 US-07-946-507-4
 Sequence 4, Application US/07946507
 Patent No. 5283354
 GENERAL INFORMATION:
 APPLICANT: Lemischka, Ihor R.
 TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: IMCONE SYSTEMS INCORPORATED
 STREET: 180 VARICK STREET
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: U.S.A.
 ZIP: 10014
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/946,507
 FILING DATE: 19920917
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/813,593
 FILING DATE: 24-DEC-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/793,065
 FILING DATE: 15-NOV-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/728,913
 FILING DATE: 28-JUN-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/679,666
 FILING DATE: 02-APR-1991

ATTORNEY/AGENT INFORMATION:
NAME: FELT, IRVING N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-946-507-4

Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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QY 1 MESKLLAVLWFCVETRAASVGLTGDPLHPPKLSQKDLITLANTLLQITCRGQRDL 60
DB 1 MESKLLAVLWFCVETRAASVGLTGDPLHPPKLSQKDLITLANTLLQITCRGQRDL 60
QY 61 WMPNAQDSERVLVTECGGDSIFCKTLTPRVVGNLTGAKSYRVDVIASTVYVYV 120
DB 61 WMPNAQDSERVLVTECGGDSIFCKTLTPRVVGNLTGAKSYRVDVIASTVYVYV 120
QY 121 RDRSPFLIASVDQGIYITENKNTVYIPCRGSIINLVSLCARYPEKRPVPGNRIS 180
DB 121 RDRSPFLIASVDQGIYITENKNTVYIPCRGSIINLVSLCARYPEKRPVPGNRIS 180
QY 181 WDSEIGFTLPSYMSYAGWVFCFAKINDETYSIMYIVVVGRIYDVLSPPHIELSA 240
DB 181 WDSEIGFTLPSYMSYAGWVFCFAKINDETYSIMYIVVVGRIYDVLSPPHIELSA 240
QY 241 GEKLVNCTARTELAVGLDFTWSPSPSKSHKKIYNRDYKPPPGVAKMFLSTLTIESY 300
DB 241 GEKLVNCTARTELAVGLDFTWSPSPSKSHKKIYNRDYKPPPGVAKMFLSTLTIESY 300
QY 301 KSDQGEYTCVASSGMIKRNRTFVHTKPIAFSGMKSLVEATVGSQVRIPVYVLSY 360
DB 301 KSDQGEYTCVASSGMIKRNRTFVHTKPIAFSGMKSLVEATVGSQVRIPVYVLSY 360
QY 361 APDIKMYNAGRPIESNYTMIVDELTIMEVTERDAGNTVILTNPISEKOSHMSLVN 420
DB 361 APDIKMYNAGRPIESNYTMIVDELTIMEVTERDAGNTVILTNPISEKOSHMSLVN 420
QY 421 VPQIGKALISPMDSYQYGTMTLTCTVYANPPLHIIQWVQLEBACSYPGQTSYAC 480
DB 421 VPQIGKALISPMDSYQYGTMTLTCTVYANPPLHIIQWVQLEBACSYPGQTSYAC 480
QY 481 KEMRHVEDFOGNGKEVTKNOVALIEGKNKTVSTVIOANVSAALYKEBALINKAGRGV 540
DB 481 KEMRHVEDFOGNGKEVTKNOVALIEGKNKTVSTVIOANVSAALYKEBALINKAGRGV 540
QY 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTFENLTWYKGSQATSYHMGESLTPV 600
DB 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTFENLTWYKGSQATSYHMGESLTPV 600
QY 601 CKNDALMLKNGTMSNSTNDILLYAFONASIQDGDYVCSAODKTKKRRKCLVYKQIL 660
DB 601 CKNDALMLKNGTMSNSTNDILLYAFONASIQDGDYVCSAODKTKKRRKCLVYKQIL 660
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QY 721 TIRVRKEDGGLYTCQACNVAGCAAEFTLIIIEGAQEKTNLEVIILVGTAVYAMFLL 780
DB 721 TIRVRKEDGGLYTCQACNVAGCAAEFTLIIIEGAQEKTNLEVIILVGTAVYAMFLL 780
QY 781 VIVRVYRANEGELKTYLSIIVMDDELPLDERCERLPYASKEPFRDLKLGKPLGR 840
DB 781 VIVRVYRANEGELKTYLSIIVMDDELPLDERCERLPYASKEPFRDLKLGKPLGR 840
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DB 781 VIVRVYRANEGELKTYLSIIVMDDELPLDERCERLPYASKEPFRDLKLGKPLGR 840
QY 841 GAFGOVTEADARGIDTATCKTAVAKMLKEGATSEHRLMSELKTLIHIGHLVNVL 900
DB 841 GAFGOVTEADARGIDTATCKTAVAKMLKEGATSEHRLMSELKTLIHIGHLVNVL 900
QY 901 GACTRPGPLMVIIVEFCFKNLSTYLRGRNFEVPYKSGARFROGKYVGLSYDLKRR 960
DB 901 GACTRPGPLMVIIVEFCFKNLSTYLRGRNFEVPYKSGARFROGKYVGLSYDLKRR 960
QY 961 LDIITSQSSASSGVEEKSLSVDEEASEELYYDFTLLEHLICYSFQVAKMEFLAS 1020
DB 961 LDIITSQSSASSGVEEKSLSVDEEASEELYYDFTLLEHLICYSFQVAKMEFLAS 1020
QY 1021 KCIHRDLAARNLLSEKNVYKICDGLARDIYKDDVYRKGARLPDKMAEETIFDRY 1080
DB 1021 KCIHRDLAARNLLSEKNVYKICDGLARDIYKDDVYRKGARLPDKMAEETIFDRY 1080
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DB 1081 TIQSDVMSFGVLLMSEIFSLGASPYPGVKIDEEFCRLKEGTRAPADYTPPMYQTM 1140
QY 1141 WHEDPNQRPSELYEHLGNLLQANAAQDQKQYIVLPMSETLSMEEDSGLSPVSCM 1200
DB 1141 WHEDPNQRPSELYEHLGNLLQANAAQDQKQYIVLPMSETLSMEEDSGLSPVSCM 1200
QY 1201 BEEVCDKRFHNDNAGISHYIQRKSRKRPVSXTTFEDIPLEBEVYKIPDSDQDSGM 1260
DB 1201 BEEVCDKRFHNDNAGISHYIQRKSRKRPVSXTTFEDIPLEBEVYKIPDSDQDSGM 1260
QY 1261 VLASELKTLEDRNKLSPSGMMPKSKRESVASGSNOTSGYQGSDDTDTTVYSSD 1320
DB 1261 VLASELKTLEDRNKLSPSGMMPKSKRESVASGSNOTSGYQGSDDTDTTVYSSD 1320
QY 1321 EAGLIKMDAAVHADSGTTLR 1341
DB 1321 EAGLIKMDAAVHADSGTTLQ 1341
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RESULT 7
US-08-252-517-6
Sequence 6, Application US/08252517
Patent No. 5548065
GENERAL INFORMATION:
APPLICANT: Lemischka, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESS: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/252,517
FILING DATE: 31-OCT-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEW-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-252-517-6

Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0; Mismatches 3; Indels 0; Gaps 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKALLAVALMFCVETRAASVGLTDFLHPKLSSTQKDIITLIANTTLQITCRGORDLD 60
DB 1 MESKGLAVALMFCVETRAASVGLTDFLHPKLSSTQKDIITLIANTTLQITCRGORDLD 60
QY 61 WLWPNRQDSERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYDWDVIASTVYV 120
DB 61 WLWPNRQDSERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYDWDVIASTVYV 120
QY 121 RDYSPFIASVSDQHGIVITENKKTIVIPCRGSIUNLVSLCARYPEKSFVDPGNRIS 180
DB 121 RDYSPFIASVSDQHGIVITENKKTIVIPCRGSIUNLVSLCARYPEKSFVDPGNRIS 180
QY 121 RDYSPFIASVSDQHGIVITENKKTIVIPCRGSIUNLVSLCARYPEKSFVDPGNRIS 180
DB 121 RDYSPFIASVSDQHGIVITENKKTIVIPCRGSIUNLVSLCARYPEKSFVDPGNRIS 180
QY 181 WDSIEGFTLPSYMI SYAGVFCCEAKINDETYOSIMYIVVVVGYRIYDVLSPHEIELSA 240
DB 181 WDSIEGFTLPSYMI SYAGVFCCEAKINDETYOSIMYIVVVVGYRIYDVLSPHEIELSA 240
QY 241 GEKVLNCTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIESVT 300
DB 241 GEKVLNCTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIESVT 300
QY 241 GEKVLNCTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIESVT 300
DB 241 GEKVLNCTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIESVT 300
QY 301 KSDQGEYTCVASSGRMIGKRTFVRVHTKPIAFSGSKSLVEATVGSQVRI PVKYLSTP 360
DB 301 KSDQGEYTCVASSGRMIGKRTFVRVHTKPIAFSGSKSLVEATVGSQVRI PVKYLSTP 360
QY 361 APDIKMYNRGRPIESNYTMIVGDELITMEVTERDAGNTVILITNPISMEKOSHMSVLVN 420
DB 361 APDIKMYNRGRPIESNYTMIVGDELITMEVTERDAGNTVILITNPISMEKOSHMSVLVN 420
QY 421 VPPOIGEKALISPMDSYOGTMQTLCTVYANPPLHITQWOLBEACSYRPGQTSYPAC 480
DB 421 VPPOIGEKALISPMDSYOGTMQTLCTVYANPPLHITQWOLBEACSYRPGQTSYPAC 480
QY 481 KEMHVEDFOGANKIETVKNOYALIEGKNTVSTLVIOANVVALYKCEALINKAGRGGRV 540
DB 481 KEMHVEDFOGANKIETVKNOYALIEGKNTVSTLVIOANVVALYKCEALINKAGRGGRV 540

QY 541 ISFHVINGBEITVQPAAPTEOESVSLCTADRENTFENLTWYKLSQATSVMGESLTPV 600
DB 541 ISFHVINGBEITVQPAAPTEOESVSLCTADRENTFENLTWYKLSQATSVMGESLTPV 600
QY 601 CKNLDAIMKNGTMFNSSTNDILVAFQNASLQOQGVYVCAQDKTKRKRCILVKQLITL 660
DB 601 CKNLDAIMKNGTMFNSSTNDILVAFQNASLQOQGVYVCAQDKTKRKRCILVKQLITL 660
QY 661 ERMAPMTGNLENOTTIGETIEVTCPASGNPTHTIMFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMTGNLENOTTIGETIEVTCPASGNPTHTIMFKONETLVEDSGIVLRDGNRL 720
QY 721 TIRVRKEDGGLYTCQACNVLCARASTLFIIEGAQEXTNLEVIILVGTAVIAPFWILL 780
DB 721 TIRVRKEDGGLYTCQACNVLCARASTLFIIEGAQEXTNLEVIILVGTAVIAPFWILL 780
QY 781 VIVARTKGRANEGELTKGYLSIYNDPDELPLDECCERLPYDASGMEPRDLKLGKPLGR 840
DB 781 VIVARTKGRANEGELTKGYLSIYNDPDELPLDECCERLPYDASGMEPRDLKLGKPLGR 840
QY 841 GAFQGVTEADAFGIDKTATCTVAVKMLKEGATSEHRALMSLKILIHGHILNVVLL 900
DB 841 GAFQGVTEADAFGIDKTATCTVAVKMLKEGATSEHRALMSLKILIHGHILNVVLL 900
QY 901 GACTPGGPIMLVIVEPCKFGNLSTYLRGKNEFVYPYKSGARFROGKDYVELSVDLKRR 960
DB 901 GACTPGGPIMLVIVEPCKFGNLSTYLRGKNEFVYPYKSGARFROGKDYVELSVDLKRR 960
QY 961 LDSITSSOSASSGFGVEKSLSDVEEESAEELKYDLTLEHL CYSPQVAKGMEPLASR 1020
DB 961 LDSITSSOSASSGFGVEKSLSDVEEESAEELKYDLTLEHL CYSPQVAKGMEPLASR 1020
QY 1021 KCIHRDLAARNIILSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPEITPDRVY 1080
DB 1021 KCIHRDLAARNIILSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPEITPDRVY 1080
QY 1081 TIQSDVMSFGVLLWEIFSLGASPYGVKIDEEFCRLKEGTRMADPYTTPEMYQTMIDC 1140
DB 1081 TIQSDVMSFGVLLWEIFSLGASPYGVKIDEEFCRLKEGTRMADPYTTPEMYQTMIDC 1140
QY 1141 WHEDPNRPSFSELVEHGNLQANNAQODGDYVLPMSSETLSMEEDSGLSLTPSPVSCM 1200
DB 1141 WHEDPNRPSFSELVEHGNLQANNAQODGDYVLPMSSETLSMEEDSGLSLTPSPVSCM 1200
QY 1201 EEEVCDPKFHYDNTAGISHLQNSKRSRPVSXKTEFEDIPLEBEVYKVIPDDSQTDSGM 1260
DB 1201 EEEVCDPKFHYDNTAGISHLQNSKRSRPVSXKTEFEDIPLEBEVYKVIPDDSQTDSGM 1260
QY 1261 VLASEELKTLEDNRKLSPSFGMMPSKRSRESVASSEGSNQTSGYSGYHSDDTDTTVSSD 1320
DB 1261 VLASEELKTLEDNRKLSPSFGMMPSKRSRESVASSEGSNQTSGYSGYHSDDTDTTVSSD 1320
QY 1321 EAGLLKRVDAVHADSGTTLR 1341
DB 1321 EAGLLKRVDAVHADSGTTLQ 1341

RESULT 8
US-07-906-397A-6
Sequence 6, Application US/07906397A
Patent No. 5621090
GENERAL INFORMATION:
APPLICANT: Lemischka, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: U.S.A.
ZIP: 10014

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/906,397A
FILING DATE: 19920626
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-P-PPPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ. ID NO. 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-906-397A-6

Query Match      99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      1 MESKLLLVALLMFCVETRAASVGLTGDPLHPRKLTQKDIILITLNTTLQITCRGQRDL 60
DB      1 MESKLLLVALLMFCVETRAASVGLTGDPLHPRKLTQKDIILITLNTTLQITCRGQRDL 60
QY      61 WLMPPAQRDSEERVLVTECGGSDSIFCKTLTIPIRVVGNDTGAYKCSYRVDVASTVYVYV 120
DB      61 WLMPPAQRDSEERVLVTECGGSDSIFCKTLTIPIRVVGNDTGAYKCSYRVDVASTVYVYV 120
QY      121 RDYRSPFIASVDQHGIVYITENKNTVYIPCRGSI SNLNVSLCARYPEKRFVDPGNRIS 180
DB      121 RDYRSPFIASVDQHGIVYITENKNTVYIPCRGSI SNLNVSLCARYPEKRFVDPGNRIS 180
QY      181 WDESEGLFLPSYMIYAGNVFCEAKINDETYSIMYIVVVGRIYDVILSPHEIEISA 240
DB      181 WDESEGLFLPSYMIYAGNVFCEAKINDETYSIMYIVVVGRIYDVILSPHEIEISA 240
QY      241 GEKLVNCTARTELVNGLDFTWSPSPSKSHKKIYNRDIKPPGTVAKMFLSTLIEEST 300
DB      241 GEKLVNCTARTELVNGLDFTWSPSPSKSHKKIYNRDIKPPGTVAKMFLSTLIEEST 300
QY      301 KSDQGEYTCVASSGSMIKRNTFVAVHTKPIAFSGSKSLVEATVGSQVRIPIVYLSYP 360
DB      301 KSDQGEYTCVASSGSMIKRNTFVAVHTKPIAFSGSKSLVEATVGSQVRIPIVYLSYP 360
QY      361 APDIKYRNGRPISENYTMIVDELTIMETBERDAGNTVITINPISMEKSHMVSIVVN 420
DB      361 APDIKYRNGRPISENYTMIVDELTIMETBERDAGNTVITINPISMEKSHMVSIVVN 420
QY      421 VPPQIGERKALISPMDSYOGTQTLCTIVYANPPLHHIQMWQMLEEASYSRGQTSYPAC 480
DB      421 VPPQIGERKALISPMDSYOGTQTLCTIVYANPPLHHIQMWQMLEEASYSRGQTSYPAC 480
QY      481 KEMRHVEDFOGKNKIEVTIKNOYALIEGKNKTVSTLVIOANVSALYKCEAINKAGRGERV 540
DB      481 KEMRHVEDFOGKNKIEVTIKNOYALIEGKNKTVSTLVIOANVSALYKCEAINKAGRGERV 540
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DB      481 KEMRHVEDFOGKNKIEVTIKNOYALIEGKNKTVSTLVIOANVSALYKCEAINKAGRGERV 540
QY      541 ISFHYIRGEIIVQPPAQTQEDESUSLCTADRNTEUNTWKYLSQATSYHMGESLTV 600
DB      541 ISFHYIRGEIIVQPPAQTQEDESUSLCTADRNTEUNTWKYLSQATSYHMGESLTV 600
QY      601 CKNLDALMTLNGTMTFNSNDILIVAFONASLQDQDYCSAQDKTKXRBHCLVKQLIIL 660
DB      601 CKNLDALMTLNGTMTFNSNDILIVAFONASLQDQDYCSAQDKTKXRBHCLVKQLIIL 660
QY      661 EEMAPWITGNLENQTTTIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIYLROGNRL 720
DB      661 EEMAPWITGNLENQTTTIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIYLROGNRL 720
QY      721 TIRRRKEDGGIYTCQACNVLCARAEYTFIIEGAQEKTNLEYIIVGAVIAMPFWLL 780
DB      721 TIRRRKEDGGIYTCQACNVLCARAEYTFIIEGAQEKTNLEYIIVGAVIAMPFWLL 780
QY      781 VIVLRTVVRKANEGLKTVLSIVMDPDELPLDERCERLPIYDASKNEFPDRLLKGLR 840
DB      781 VIVLRTVVRKANEGLKTVLSIVMDPDELPLDERCERLPIYDASKNEFPDRLLKGLR 840
QY      841 GAFQGVTEADAFGIDKTATCKTVAVKMLKEGATSEHRAIMSELKILIHIGHILNVNLL 900
DB      841 GAFQGVTEADAFGIDKTATCKTVAVKMLKEGATSEHRAIMSELKILIHIGHILNVNLL 900
QY      901 GACTPQGPPLMYIVFCKFGNLSYLRGRNFPVYKSGARFROGKDYVSELVDLKR 960
DB      901 GACTPQGPPLMYIVFCKFGNLSYLRGRNFPVYKSGARFROGKDYVSELVDLKR 960
QY      961 LDSITSSQSSASGSGVEEKSLSDVEEBSSELYKDFLTLHLICYSFOVAGMEFLASR 1020
DB      961 LDSITSSQSSASGSGVEEKSLSDVEEBSSELYKDFLTLHLICYSFOVAGMEFLASR 1020
QY      1021 KCIHRDLAARNILISEKNVYICDPGLARDIYKDPDYRKGDARPLKMMABETIFDRY 1080
DB      1021 KCIHRDLAARNILISEKNVYICDPGLARDIYKDPDYRKGDARPLKMMABETIFDRY 1080
QY      1081 TIQSDVMSFGVLLMEIFSLGASPIYGVKIDEEFCRLKEGTMRAPDYTPMYOTMDC 1140
DB      1081 TIQSDVMSFGVLLMEIFSLGASPIYGVKIDEEFCRLKEGTMRAPDYTPMYOTMDC 1140
QY      1141 WHEDNORPSFSELYEHGNLQANAQDQKQYIVLPMSETLSMEDSGLSPTSPVSCM 1200
DB      1141 WHEDNORPSFSELYEHGNLQANAQDQKQYIVLPMSETLSMEDSGLSPTSPVSCM 1200
QY      1201 EEEVCDPKFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLEBPEVYVIPDSQTDSCM 1260
DB      1201 EEEVCDPKFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLEBPEVYVIPDSQTDSCM 1260
QY      1261 VLAEEELTLBEDRNKLSPSFGGMPSKSRRESVYASGNSQTSYGQSHSDDTTVYSSD 1320
DB      1261 VLAEEELTLBEDRNKLSPSFGGMPSKSRRESVYASGNSQTSYGQSHSDDTTVYSSD 1320
QY      1321 EAGLHKWDAAVHADSGTIR 1341
DB      1321 EAGLHKWDAAVHADSGTIR 1341

RESULT 9
US-08-601-891-6
Sequence 6, Application US/08601891
Patent No. 5747651
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varlick Street
CITY: New York
```

STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/601,891
FILING DATE: 15-FEB-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-601-891-6

Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKLLAVNALMFCETPRAASVGLTGDPLHPPKSTOCDITLTANTLLOITTCGQRDL 60
DB 1 MESKGLLAVNALMFCETPRAASVGLTGDPLHPPKSTOCDITLTANTLLOITTCGQRDL 60
QY 61 WLMPNAGDSBEERLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVIASTVYVYV 120
DB 61 WLMPNAGDSBEERLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVIASTVYVYV 120
QY 121 RDIYSPFIASVSDHGIVYITENKNTVILPCRGISNLNLSLCARYPEKKFVDPGNRIS 180
DB 121 RDIYSPFIASVSDHGIVYITENKNTVILPCRGISNLNLSLCARYPEKKFVDPGNRIS 180
QY 181 WDSRIGFTLPSYMTSYAGMVFCEAKINDETYSIMYIVVVGRIYDVILSPPHIEILSA 240
DB 181 WDSRIGFTLPSYMTSYAGMVFCEAKINDETYSIMYIVVVGRIYDVILSPPHIEILSA 240

QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHHKIYNRDVXFPFGTAKMFLSTLTIESVT 300
DB 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHHKIYNRDVXFPFGTAKMFLSTLTIESVT 300
QY 301 KSDGEYTCVASSGRMIKRNRTFVRVHTKPPFIAGSGMKSLVEATVGSQVRIPVKYLSYP 360
DB 301 KSDGEYTCVASSGRMIKRNRTFVRVHTKPPFIAGSGMKSLVEATVGSQVRIPVKYLSYP 360
QY 361 APDIKWRNRPRESNNTMIVGDELTIMEATERPAGNYTVILNPISEKOSHNVSLVN 420
DB 361 APDIKWRNRPRESNNTMIVGDELTIMEATERPAGNYTVILNPISEKOSHNVSLVN 420
QY 421 VPPQIGEKALISPMDSYQYGMOTLTCTVYANPPLHHIOWYQOLEBACSYPGQTSPYAC 480
DB 421 VPPQIGEKALISPMDSYQYGMOTLTCTVYANPPLHHIOWYQOLEBACSYPGQTSPYAC 480
QY 481 KEMRVEDPQGNKI EYTKQYALI BEGNKTVSTLVI QAAVNSALYKCEAIKAGRGERV 540
DB 481 KEMRVEDPQGNKI EYTKQYALI BEGNKTVSTLVI QAAVNSALYKCEAIKAGRGERV 540
QY 541 ISFHVIGPRTVQPAOPTBOESVSLCTADRTFENLTMYKLSQATSVMGESLTPV 600
DB 541 ISFHVIGPRTVQPAOPTBOESVSLCTADRTFENLTMYKLSQATSVMGESLTPV 600
QY 601 CKNLDAIMKLTGTFNSSTNDILIVAFONASLODQGDYVCSAODKTKRKHCLVKQLIIL 660
DB 601 CKNLDAIMKLTGTFNSSTNDILIVAFONASLODQGDYVCSAODKTKRKHCLVKQLIIL 660
QY 661 ERNAPMITGNLENOTTTIGETIEVTCPASGNPPIHTWFKDNEFLVDSGLVLDGNRNL 720
DB 661 ERNAPMITGNLENOTTTIGETIEVTCPASGNPPIHTWFKDNEFLVDSGLVLDGNRNL 720
QY 721 TIRVRKEDGSLYCOACNVLCGARAETLPIEBAQEKINLEVIIVGTAVIANFEMLL 780
DB 721 TIRVRKEDGSLYCOACNVLCGARAETLPIEBAQEKINLEVIIVGTAVIANFEMLL 780
QY 781 VIVLRTVKRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEPPRDLKLGKPLGR 840
DB 781 VIVLRTVKRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEPPRDLKLGKPLGR 840
QY 841 GAFQVTEADAFGIDKATCTKTVAVKMLKGAATSEHRALMSEKILIHIGHNLNVNLL 900
DB 841 GAFQVTEADAFGIDKATCTKTVAVKMLKGAATSEHRALMSEKILIHIGHNLNVNLL 900
QY 901 GACTKPGPLMVIYEFCKFNGLSLYLKGKNEPVPYKSKARFQGDYVGEISVDLKR 960
DB 901 GACTKPGPLMVIYEFCKFNGLSLYLKGKNEPVPYKSKARFQGDYVGEISVDLKR 960
QY 961 LDSITSSOSASGSGFVEKSLSDVEEESAEBELYKDLTLEHLICYSFOYAKGMEFLASR 1020
DB 961 LDSITSSOSASGSGFVEKSLSDVEEESAEBELYKDLTLEHLICYSFOYAKGMEFLASR 1020
QY 1021 KCHIRDLAARNIILISEKNVVKICDFGLARDIYKDDPYVRKGDARLP LKMAPEITFDRVY 1080
DB 1021 KCHIRDLAARNIILISEKNVVKICDFGLARDIYKDDPYVRKGDARLP LKMAPEITFDRVY 1080
QY 1081 TIOSDWSFGVILMEIFSLGASPPGVKIDBEFRRRLKEGTRMAAPDYTTIEMQTMDC 1140
DB 1081 TIOSDWSFGVILMEIFSLGASPPGVKIDBEFRRRLKEGTRMAAPDYTTIEMQTMDC 1140
QY 1141 WHBDPNRPSFSELVEHIGNLQANAOQDGDYIVLPMSELTLSMEBDSGLSPSPVSCM 1200
DB 1141 WHBDPNRPSFSELVEHIGNLQANAOQDGDYIVLPMSELTLSMEBDSGLSPSPVSCM 1200
QY 1201 EEEVCDPKRHYDNTAGISHLQNSKRKSPVSKYKTEDIPLBEPBYAVVIPDDSQOTSGM 1260
DB 1201 EEEVCDPKRHYDNTAGISHLQNSKRKSPVSKYKTEDIPLBEPBYAVVIPDDSQOTSGM 1260
QY 1261 VLASSEELKTEEDRKKLSPSFGMMPSKSRBSVASSEGNQTSYGQSGYHSDDTDTTVVSSD 1320
DB 1261 VLASSEELKTEEDRKKLSPSFGMMPSKSRBSVASSEGNQTSYGQSGYHSDDTDTTVVSSD 1320

QY 1321 EAGLKMVDAVAHADSGTTIR 1341
 DB 1321 EAGLKMVDAVAHADSGTTIQ 1341

RESULT 10

US-09-021-324-6
 Sequence 6, Application US/09021324
 Patent No. 5912133

GENERAL INFORMATION:

APPLICANT: Lemischka, Thor R.
 TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Imclone Systems Incorporated
 STREET: 180 Varlick Street
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.

ZIP: 10014

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/021,324
 FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/977,451
 FILING DATE: 1992-11-19

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/906,397
 FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US PCT/US92/05401
 FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: TM 81102961
 FILING DATE: 15-APR-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US PCT/US92/02750
 FILING DATE: 02-APR-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/813,593
 FILING DATE: 24-DEC-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/793,065
 FILING DATE: 15-NOV-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/728,913
 FILING DATE: 28-JUN-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/679,666
 FILING DATE: 02-APR-1991

ATTORNEY/AGENT INFORMATION:
 NAME: Felt, Irving N.

REGISTRATION NUMBER: 28,601
 REFERENCE/DOCKET NUMBER: LEM-3-7P

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-645-1405
 TELEFAX: 212-645-2054

INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1367 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

MOLECULE TYPE: protein
 US-09-021-324-6

Query Match 99.3%; Score 6994; DB 1; Length 1367;

Best Local Similarity 99.6%; Pred. No. 0;
 Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY	1	MESKALLAVAFVCFVTRAAVGLTGDFLHPPKLSYOKDILITLANTTLOITRGQRDL	60
DB	1	MESKGLAVAFVCFVTRAAVGLPGDFLHPPKLSYOKDILITLANTTLOITRGQRDL	60
QY	61	WLPNARQDSEERVLVTECGGGSIFCKTLTTPRVVGNTPGVKSGYRVDIASTVYVY	120
DB	61	WLPNARQDSEERVLVTECGGGSIFCKTLTTPRVVGNTPGVKSGYRVDIASTVYVY	120
QY	121	RDYRSPFIASVDQHGIVITENKNTVIPCGRSISNLNVSICARYPEKRFVDPGRIS	180
DB	121	RDYRSPFIASVDQHGIVITENKNTVIPCGRSISNLNVSICARYPEKRFVDPGRIS	180
QY	181	WDSEIGFTLPSTMYISYAGVFCBAKNDETYOSIMYIVVVGRIYDVLISPEHELSA	240
DB	181	WDSEIGFTLPSTMYISYAGVFCBAKNDETYOSIMYIVVVGRIYDVLISPEHELSA	240
QY	241	GEKLVNCTARTELNVGLDFTWSPSKSHKKIVNRDVKPPPGTVAKMFLSTLTESVT	300
DB	241	GEKLVNCTARTELNVGLDFTWSPSKSHKKIVNRDVKPPPGTVAKMFLSTLTESVT	300
QY	301	KSDQGEYTCVASSGRMICKNRTFVRVHTKPTAFSGSMKSLVEATVGSQVRIPVKLSYP	360
DB	301	KSDQGEYTCVASSGRMICKNRTFVRVHTKPTAFSGSMKSLVEATVGSQVRIPVKLSYP	360
QY	361	APDIKMYRNGRPIESNTYMIVDELTIMVTERDAGNTVYIITNPISMEKQHMVSLVN	420
DB	361	APDIKMYRNGRPIESNTYMIVDELTIMVTERDAGNTVYIITNPISMEKQHMVSLVN	420
QY	421	VPPQIGEXKALISPMDSYOGTMOTLTCTYAAPPLHHTQWMOLEBACGYRQGSYVAC	480
DB	421	VPPQIGEXKALISPMDSYOGTMOTLTCTYAAPPLHHTQWMOLEBACGYRQGSYVAC	480
QY	481	KEMRVEDFOGKNKLEVTNQYALIEGKNKTVSTVIOANVSALYKCEAINKAGREHY	540
DB	481	KEMRVEDFOGKNKLEVTNQYALIEGKNKTVSTVIOANVSALYKCEAINKAGREHY	540
QY	541	ISFHVIRGPEITVOAPAQPTBOESVSLCTADRNTPENITWYKLSQATVHMBESLTV	600
DB	541	ISFHVIRGPEITVOAPAQPTBOESVSLCTADRNTPENITWYKLSQATVHMBESLTV	600
QY	601	CNULALMKLNGTMSNSTNDLIIAFOVASIQDGDVYCSADCKTKKRHLVYQLITL	660
DB	601	CNULALMKLNGTMSNSTNDLIIAFOVASIQDGDVYCSADCKTKKRHLVYQLITL	660
QY	661	ERMAMPITGNLENQTTTIGETIEVTCPASGNPTPHITFKDNETLVEDSGIVLRQGRNL	720
DB	661	ERMAMPITGNLENQTTTIGETIEVTCPASGNPTPHITFKDNETLVEDSGIVLRQGRNL	720
QY	721	TIRVRKEDDGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL	780
DB	721	TIRVRKEDDGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL	780
QY	781	VIVLTVRANBEGELKTGYLSIYMPDDELPLDERCERLPYDASKPEFPDRKLKGPGR	840
DB	781	VIVLTVRANBEGELKTGYLSIYMPDDELPLDERCERLPYDASKPEFPDRKLKGPGR	840
QY	841	GAFGVIEADAFGLDKTATCKTAVAKMLKEGATSEHSHALMSELKILIHIGHLNVNLL	900
DB	841	GAFGVIEADAFGLDKTATCKTAVAKMLKEGATSEHSHALMSELKILIHIGHLNVNLL	900
QY	901	GACTKPGGPLWIVYEFKGNLSTYLRGRNEFVYKSGARFRQGXVYGBLSDVKRR	960
DB	901	GACTKPGGPLWIVYEFKGNLSTYLRGRNEFVYKSGARFRQGXVYGBLSDVKRR	960
QY	961	LDSTSSQSSASGVEEKSISDVEEESASELYDELTLHLITCYSOVAKKGKFLASR	1020
DB	961	LDSTSSQSSASGVEEKSISDVEEESASELYDELTLHLITCYSOVAKKGKFLASR	1020
QY	1021	KCIHRDLAARNILASEKNVVKICDFGLARDLYKDPDYVRKGDARLPLKMAPETFDRVY	1080
DB	1021	KCIHRDLAARNILASEKNVVKICDFGLARDLYKDPDYVRKGDARLPLKMAPETFDRVY	1080

Db 1021 KC1HDLAARNILSEKXVVKICDEGLARDIYKDPDYVRKGDARLP1LKMAPEITFDREV 1080
Qy 1081 T1QSDVMSFVGLWMEIFSLGASPYGVKIDEEFCRLKEGTRMARADYTPPEMYOTMDC 1140
Db 1081 T1QSDVMSFVGLWMEIFSLGASPYGVKIDEEFCRLKEGTRMARADYTPPEMYOTMDC 1140
Qy 1141 WHEDPNQRPSFSELVEH1GNLLQANAAQDGKDYIVLPMSETLSMEDSGLSPTSPVSCM 1200
Db 1141 WHEDPNQRPSFSELVEH1GNLLQANAAQDGKDYIVLPMSETLSMEDSGLSPTSPVSCM 1200
Qy 1201 EEEECVDPKRFHYDNAGISHTY1QNSKRKSRPVSVKTFEPDIPLEBEVAVIIPDDSGTDSGM 1260
Db 1201 EEEECVDPKRFHYDNAGISHTY1QNSKRKSRPVSVKTFEPDIPLEBEVAVIIPDDSGTDSGM 1260
Qy 1261 VLAASELKTLEDRNKLSPSGCMPSKSRVASEGNSQTSYGQSGYHSDDTDTTVYSSD 1320
Db 1261 VLAASELKTLEDRNKLSPSGCMPSKSRVASEGNSQTSYGQSGYHSDDTDTTVYSSD 1320
Qy 1321 EAGLLKMWDAVHADSGTTLR 1341
Db 1321 EAGLLKMWDAVHADSGTTLQ 1341

RESULT 11
US-09-872-136B-6
Sequence 6, Application US/09872136B
Patent No. 667434
GENERAL INFORMATION:
APPLICANT: Lemischka, Thor R.
TITLE OF INVENTION: SOLUBLE HUMAN FLK-2 PROTEIN
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/872,136B
FILING DATE: 01-Jun-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/208,786
FILING DATE: 10-DEC-1998
APPLICATION NUMBER: US 09/021,324
FILING DATE: 10-FEB-1998
APPLICATION NUMBER: US 08/601,691
FILING DATE: 15-FEB-1996
APPLICATION NUMBER: US 08/252,498
FILING DATE: 31-OCT-1994
APPLICATION NUMBER: US 08/055,269
FILING DATE: 30-APR-1993
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
APPLICATION NUMBER: US 07/975,049
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wlecekowski, Elizabeth M.

REGISTRATION NUMBER: 42,226
REFERENCE/DOCKET NUMBER: 11245/46115
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-425-7200
TELEFAX: 212-425-5288
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-872-136B-6
Query Match 99.3%; Score 6994; DB 2; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
Qy 1 MESKALLAVALMFCVETRAASVGLTGPFLHPPKLTOKDILITLANTTLQITCRGORDLD 60
Db 1 MESKGLLAVALMFCVETRAASVGLTGPFLHPPKLTOKDILITLANTTLQITCRGORDLD 60
Qy 61 WLMPNQRDSEERVLVTECGGSDSIFCKTTLTPRVNGDNTAYKCYRDNDAIAVTVYV 120
Db 61 WLMPNQRDSEERVLVTECGGSDSIFCKTTLTPRVNGDNTAYKCYRDNDAIAVTVYV 120
Qy 121 RDYSPFIAVSVDHGIYVITENKNTVILPCRGSISNLAVSLCARYPEKSFVDPGNRIS 180
Db 121 RDYSPFIAVSVDHGIYVITENKNTVILPCRGSISNLAVSLCARYPEKSFVDPGNRIS 180
Qy 181 WDSIGFTLPSTYMSVAGWFCFAKINDEYQSIWYIVVGVYRIYDVLISPHIELESA 240
Db 181 WDSIGFTLPSTYMSVAGWFCFAKINDEYQSIWYIVVGVYRIYDVLISPHIELESA 240
Qy 241 GEKLVNCTATETLNGDFTWHSPPSKSHHKLVNDRVDFRPGTVAAKPISTLTIEBVT 300
Db 241 GEKLVNCTATETLNGDFTWHSPPSKSHHKLVNDRVDFRPGTVAAKPISTLTIEBVT 300
Qy 301 KSDQGEYTCVASSGRMIRKRTFVRVHTKPIAAGSGKSLVEATVSGQVRIPVKYLSTP 360
Db 301 KSDQGEYTCVASSGRMIRKRTFVRVHTKPIAAGSGKSLVEATVSGQVRIPVKYLSTP 360
Qy 361 APDIKWRNGRPISNTYMIWDELTIMEVTERDAGNTVILNPISEKOSHWSVLVN 420
Db 361 APDIKWRNGRPISNTYMIWDELTIMEVTERDAGNTVILNPISEKOSHWSVLVN 420
Qy 421 VPPQIGKALISPMDSYQGTMTLTCTVYANPPLHHIQTWQLEBASYPGQTSFYAC 480
Db 421 VPPQIGKALISPMDSYQGTMTLTCTVYANPPLHHIQTWQLEBASYPGQTSFYAC 480
Qy 481 KEMHVEDFOGKNIETVKNQYALIEGKNTVSTLVIOANAVSALYKCEALINKAGRGERV 540
Db 481 KEMHVEDFOGKNIETVKNQYALIEGKNTVSTLVIOANAVSALYKCEALINKAGRGERV 540
Qy 541 ISFHVIRGEITVPPAAOPTQESVSLCTADRTFENLTMYKLGSOQTSYMGESLTPV 600
Db 541 ISFHVIRGEITVPPAAOPTQESVSLCTADRTFENLTMYKLGSOQTSYMGESLTPV 600
Qy 601 CKNDALMKNGTMFSSTNDILVAFONASLQOQGVCSAODKTKKRCCLVAKQLITL 660
Db 601 CKNDALMKNGTMFSSTNDILVAFONASLQOQGVCSAODKTKKRCCLVAKQLITL 660
Qy 661 ERMAPMTGNLENQTTTIGETIEVTCPSAGNPHTITFKNETLVEDSGILVRDGNL 720
Db 661 ERMAPMTGNLENQTTTIGETIEVTCPSAGNPHTITFKNETLVEDSGILVRDGNL 720
Qy 721 TIRVRKEDGGLYTCQACNVLGARAEITLIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
Db 721 TIRVRKEDGGLYTCQACNVLGARAEITLIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
Qy 781 VIVLRVTKRANEGSLKGYLSIWNDDPELPLDECCERLPYASKMEFPDRDLKQKPIGR 840
Db 781 VIVLRVTKRANEGSLKGYLSIWNDDPELPLDECCERLPYASKMEFPDRDLKQKPIGR 840

QY 841 GAFGVIEADAFGIDKTATCTVAVVMLKEGATHSEHRLMSLKITLHGHILNVNLL 900
DB 841 GAFGVIEADAFGIDKTATCTVAVVMLKEGATHSEHRLMSLKITLHGHILNVNLL 900
QY 901 GACTRGCPPLMYIVFECFKGNLSTYIRGRNEFPVYKSGARPROGKDYVGLSVLXKR 960
DB 901 GACTRGCPPLMYIVFECFKGNLSTYIRGRNEFPVYKSGARPROGKDYVGLSVLXKR 960
QY 961 LDISITSSOSSASSGFVEEKSLSDVVEEASEELXYDFTLLEHLICYSPOVAKMFTLAR 1020
DB 961 LDISITSSOSSASSGFVEEKSLSDVVEEASEELXYDFTLLEHLICYSPOVAKMFTLAR 1020
QY 1021 KCIHRDLAARNILLESKNVVKICDFGLADIYKDPDYVAKGDARLPKMMAPETTFDRY 1080
DB 1021 KCIHRDLAARNILLESKNVVKICDFGLADIYKDPDYVAKGDARLPKMMAPETTFDRY 1080
QY 1081 TIQSDVMSFGVLLWEIFSLGASPYPGVKIDEEFCRLKEGTRAPADYTTPEMYOTMLDC 1140
DB 1081 TIQSDVMSFGVLLWEIFSLGASPYPGVKIDEEFCRLKEGTRAPADYTTPEMYOTMLDC 1140
QY 1141 WHEDNORPSFSELVEHGNLLQANAOQDKDYIYLPMSSETLSMEDSGLSPTSPVSCM 1200
DB 1141 WHEDNORPSFSELVEHGNLLQANAOQDKDYIYLPMSSETLSMEDSGLSPTSPVSCM 1200
QY 1201 EEEVCDPKFHYDNTAGISHYLQNSKRKSPVSVKTFEDIPLPEBPVKYIPDSDQSDSCM 1260
DB 1201 EEEVCDPKFHYDNTAGISHYLQNSKRKSPVSVKTFEDIPLPEBPVKYIPDSDQSDSCM 1260
QY 1261 VIASELKLTEBDRNKLSPSFGGMPSKSRRESVASGSGNQTSGYSGYSDDTITVYSSD 1320
DB 1261 VIASELKLTEBDRNKLSPSFGGMPSKSRRESVASGSGNQTSGYSGYSDDTITVYSSD 1320
QY 1321 EAGLLKMDAANVHADSCTTLR 1341
DB 1321 EAGLLKMDAANVHADSCTTLR 1341

RESULT 12

US-09-919-408A-6
Sequence 6, Application US/09919408A
Patent No. 6960446

GENERAL INFORMATION:

APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: METHOD FOR ISOLATING CELLS EXPRESSING
FLK-2 RECEPTORS AND ISOLATED POPULATIONS
OF CELLS THAT EXPRESS FLK-2 RECEPTORS

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/919,408A

FILING DATE: 31-Jul-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/208,786

FILING DATE: 10-Dec-1998

APPLICATION NUMBER: US 09/021,324

FILING DATE: 10-Feb-1998

APPLICATION NUMBER: US 08/601,891

FILING DATE: 15-Feb-1996

APPLICATION NUMBER: US 08/252,498

FILING DATE: 31-Oct-1994

APPLICATION NUMBER: US 08/055,269

FILING DATE: 30-Apr-1993
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-Nov-1992
APPLICATION NUMBER: US 07/975,049
FILING DATE: 12-Nov-1992
APPLICATION NUMBER: 07/906,397
FILING DATE: 26-Jun-1992
APPLICATION NUMBER: 07/813,593
FILING DATE: 24-Dec-1991
APPLICATION NUMBER: 07/793,065
FILING DATE: 15-Nov-1991
APPLICATION NUMBER: 07/728,913
FILING DATE: 28-Jun-1991
APPLICATION NUMBER: 07/679,666
FILING DATE: 02-Apr-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wieckowski, Elizabeth M.
REGISTRATION NUMBER: 42,226
REFERENCE/DOCKET NUMBER: 11245/46115
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-425-7200
TELEFAX: 212-425-5288
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-919-408A-6

Query Match 99.3%; Score 6994; DB 2; Length 1367;

Beet Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKSLSTQKDIITLIANTTLQITCRGQRDLD 60
DB 1 MESKGLAVALMFCVETRAASVGLTGDFLHPKSLSTQKDIITLIANTTLQITCRGQRDLD 60
QY 61 WLMFPAQDSERVLVTECGGDSIFCKTLTIPRVVNDGAYKCSYRDVDIASTVYVV 120
DB 61 WLMFPAQDSERVLVTECGGDSIFCKTLTIPRVVNDGAYKCSYRDVDIASTVYVV 120
QY 121 RDVSPFIASVDGIVYITENKKTAVIPCRGSIUNLSLARYEKKFVDPGNIS 180
DB 121 RDVSPFIASVDGIVYITENKKTAVIPCRGSIUNLSLARYEKKFVDPGNIS 180
QY 181 WDEIGFTLPSYMSIYAGMVFCEAKINDEYQSIWYIVVVGRIYDYLSPPEIELSA 240
DB 181 WDEIGFTLPSYMSIYAGMVFCEAKINDEYQSIWYIVVVGRIYDYLSPPEIELSA 240
QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHHKIIVNRDVKPFGTVAMFLSTLTIESVT 300
DB 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHHKIIVNRDVKPFGTVAMFLSTLTIESVT 300
QY 301 KSDGEYTCVASSGRMIRKNTFVRVHTKPIIARGSGKSLVEATVGSQVRIIPKXTLSYP 360
DB 301 KSDGEYTCVASSGRMIRKNTFVRVHTKPIIARGSGKSLVEATVGSQVRIIPKXTLSYP 360
QY 361 APDIKMYRNGRPIISNTYMIIGDELTIMEVEYRDAGNYTVLITPIISMEKSHWVSLVNN 420
DB 361 APDIKMYRNGRPIISNTYMIIGDELTIMEVEYRDAGNYTVLITPIISMEKSHWVSLVNN 420
QY 421 VPPOIGERKALISPMDSYQYGTMTCTTVANPPLHHIOWYQLEBACSYPGQTSYPAC 480
DB 421 VPPOIGERKALISPMDSYQYGTMTCTTVANPPLHHIOWYQLEBACSYPGQTSYPAC 480
QY 481 KEMRHVEDFOGKNGIEYTKNOYALIEGKNTVSTLVIOANVSAIYKCEALNKGRGERV 540
DB 481 KEMRHVEDFOGKNGIEYTKNOYALIEGKNTVSTLVIOANVSAIYKCEALNKGRGERV 540
QY 541 ISFVIRGPEITVOPAAQPTQESVSLCTADRNTFENLTWYKLGSAQTSVHMGESLTPV 600
DB 541 ISFVIRGPEITVOPAAQPTQESVSLCTADRNTFENLTWYKLGSAQTSVHMGESLTPV 600


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Db 541 ISFHVIRGPEITVQPAAPTEQESVSLCTADRNTEFNLTWYKLGSOATSVHMGESLTPV 600
Qy 601 CKNDALAMKNGTMSNSTNDILIVAFONASLDQGDYVCSADPKTKRHCCLVKQLITL 660
Db 601 CKNDALAMKNGTMSNSTNDILIVAFONASLDQGDYVCSADPKTKRHCCLVKQLITL 660
Qy 661 ERMAPMTTGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
Db 661 ERMAPMTTGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
Qy 721 TIRRVKXEDGGLYTCQACNVLCGARAETLFTIBGQOEKTNLEVIIVGTAVIANPFMLL 780
Db 721 TIRRVKXEDGGLYTCQACNVLCGARAETLFTIBGQOEKTNLEVIIVGTAVIANPFMLL 780
Qy 781 VILVTRVVRANEGELKTGYLSIVMDPDELPLDERCERLPYDASKMEFPDRDLKLGKPLGR 840
Db 781 VILVTRVVRANEGELKTGYLSIVMDPDELPLDERCERLPYDASKMEFPDRDLKLGKPLGR 840
Qy 841 GAFQGVTEADAFGIDKTNCTCTVAVKMLKEGATHSERHALSELKILIHGHILNVNLL 900
Db 841 GAFQGVTEADAFGIDKTNCTCTVAVKMLKEGATHSERHALSELKILIHGHILNVNLL 900
Qy 901 GACTKPGGSLWVIVYFCKEKNLSTYLRGKNEFVYKSGARFQGGKDYGELSVDLKR 960
Db 901 GACTKPGGSLWVIVYFCKEKNLSTYLRGKNEFVYKSGARFQGGKDYGELSVDLKR 960
Qy 961 LDSITSSQSSASGCFVEEKSLSDVVEEBAEELYKDFLLEHLICYSFQVAKGMEFLASR 1020
Db 961 LDSITSSQSSASGCFVEEKSLSDVVEEBAEELYKDFLLEHLICYSFQVAKGMEFLASR 1020
Qy 1021 KCIRHDLAARNIILSEKVVKICDFGLARDYKDPDYRKGDARPLKMAPEITFDRY 1080
Db 1021 KCIRHDLAARNIILSEKVVKICDFGLARDYKDPDYRKGDARPLKMAPEITFDRY 1080
Qy 1081 TIOSDWSFGULWMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMTQMLDC 1140
Db 1081 TIOSDWSFGULWMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMTQMLDC 1140
Qy 1141 WHBDPNORPSPSELVEHGLNLLQANAOQDGKDYIVLPMSETLSMBEDSGLSLPTSPVSCM 1200
Db 1141 WHBDPNORPSPSELVEHGLNLLQANAOQDGKDYIVLPMSETLSMBEDSGLSLPTSPVSCM 1200
Qy 1201 EEEVCDPKFYDNTAGISHTLONSKKRSR PVS YKTFEDILPEBEVAVIPDDSQTSGM 1260
Db 1201 EEEVCDPKFYDNTAGISHTLONSKKRSR PVS YKTFEDILPEBEVAVIPDDSQTSGM 1260
Qy 1261 VLASEELKTLEDKRLSPSGGMMPSKRSRESVASGSGNOTSGYSGYHSDDTTIVYSSD 1320
Db 1261 VLASEELKTLEDKRLSPSGGMMPSKRSRESVASGSGNOTSGYSGYHSDDTTIVYSSD 1320
Qy 1321 EAGLLKMWDAVHADSGTTLR 1341
Db 1321 EAGLLKMWDAVHADSGTTLQ 1341

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RESULT 13
PCT-US92-02750-8
; Sequence 8, Application PC/TUS9202750
; GENERAL INFORMATION:
; APPLICANT: LEMISCHKA, IHOR R.
; TITLE OF INVENTION: Totipotent Hematopoietic Stem Cell
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IMCONE SYSTEMS INCORPORATED
; STREET: 180 VARICK STREET
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: US
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/02750
; FILING DATE: 19920402
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: FEIT, IRVING N.
; REGISTRATION NUMBER: 28,601
; REFERENCE/DOCKET NUMBER: LEM-3-PPEPT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-645-1405
; TELEFAX: 212-645-2054
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US92-02750-8

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Query Match          99.3%; Score 6994; DB 4; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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Qy 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSIQKDIITLIANTTLQITCRGQRDL 60
Db 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSIQKDIITLIANTTLQITCRGQRDL 60
Qy 61 WLPNMQRDEEERVLVTECGGDSIFCKTLTTPRVNNDGAYKSRVDVIASTVYVV 120
Db 61 WLPNMQRDEEERVLVTECGGDSIFCKTLTTPRVNNDGAYKSRVDVIASTVYVV 120
Qy 121 RDVRSPIASVSDHGVITENKNTVIPCGRSISNLNVSICARYPERFVDPGRIS 180
Db 121 RDVRSPIASVSDHGVITENKNTVIPCGRSISNLNVSICARYPERFVDPGRIS 180
Qy 181 WDEIGFTLPSYMSYAGWFCEAKINDETYOSIMYIVVVVGRIYDVLISPPHEILSA 240
Db 181 WDEIGFTLPSYMSYAGWFCEAKINDETYOSIMYIVVVVGRIYDVLISPPHEILSA 240
Qy 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIUNRDVVPFPGTVAKMFLSTLTISVT 300
Db 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIUNRDVVPFPGTVAKMFLSTLTISVT 300
Qy 301 KSDQGEYTCVASSGRMIKRRRTFVRVATKPFIAFGSGMKSLEATVGSQVRIPVKYLSTP 360
Db 301 KSDQGEYTCVASSGRMIKRRRTFVRVATKPFIAFGSGMKSLEATVGSQVRIPVKYLSTP 360
Qy 361 APDIKMYRNGRPISNTYMLVGBELTMEVTERDAGNYTIVLTPISMEKQSHMVLVN 420
Db 361 APDIKMYRNGRPISNTYMLVGBELTMEVTERDAGNYTIVLTPISMEKQSHMVLVN 420
Qy 421 VPPQIGFKALISPMDSYQVCTMOTLTCTVYANPLHHIOMYQOLEECSYRPGTSPAC 480
Db 421 VPPQIGFKALISPMDSYQVCTMOTLTCTVYANPLHHIOMYQOLEECSYRPGTSPAC 480
Qy 481 KEMRHVEDFOGKNKIEYTKNQVALIBGNKTVSTLVIQANVSAALYKCEAINKAGSERV 540
Db 481 KEMRHVEDFOGKNKIEYTKNQVALIBGNKTVSTLVIQANVSAALYKCEAINKAGSERV 540
Qy 541 ISFHVIRGPEITVQPAAPTEQESVSLCTADRNTEFNLTWYKLGSOATSVHMGESLTPV 600
Db 541 ISFHVIRGPEITVQPAAPTEQESVSLCTADRNTEFNLTWYKLGSOATSVHMGESLTPV 600
Qy 601 CKNDALAMKNGTMSNSTNDILIVAFONASLDQGDYVCSADPKTKRHCCLVKQLITL 660
Db 601 CKNDALAMKNGTMSNSTNDILIVAFONASLDQGDYVCSADPKTKRHCCLVKQLITL 660
Qy 661 ERMAPMTTGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
Db 661 ERMAPMTTGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720

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QY 721 TIRVRKEDGGLYTQACNVLCARAEFLFII EGAQEKTNLEVIILVGTAVIAMEFWLL 780
DB 721 TIRVRKEDGGLYTQACNVLCARAEFLFII EGAQEKTNLEVIILVGTAVIAMEFWLL 780
QY 781 VIVRTVRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEPPRDLKLGKPLGR 840
DB 781 VIVRTVRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEPPRDLKLGKPLGR 840
QY 841 GAFQGVIEADAFGIDKATCTVAVMKLEGAATSEHRLMSELKILIHIGHILNVNLL 900
DB 841 GAFQGVIEADAFGIDKATCTVAVMKLEGAATSEHRLMSELKILIHIGHILNVNLL 900
QY 901 GACTKPGELMVI VEFCKFNLSTYLGRKNEFPVYKSGAARFQCKDVGELSYDLKRR 960
DB 901 GACTKPGELMVI VEFCKFNLSTYLGRKNEFPVYKSGAARFQCKDVGELSYDLKRR 960
QY 961 LDSITSSQSSASSGFVEEKSLS DVEEBEASELKYDFLTLEHLCYSFQVAKGMEFLASR 1020
DB 961 LDSITSSQSSASSGFVEEKSLS DVEEBEASELKYDFLTLEHLCYSFQVAKGMEFLASR 1020
QY 1021 KCIHRDLAARNILSEKNVVKICDFGLANDIYKDPDYVYKGDARLPKMMAPETIFDRY 1080
DB 1021 KCIHRDLAARNILSEKNVVKICDFGLANDIYKDPDYVYKGDARLPKMMAPETIFDRY 1080
QY 1081 TIQSDVWSEFGLLWEI FSLGASPYPGVKIDEBFCRLKEGTRMRA PDYTTPEMYQTMDC 1140
DB 1081 TIQSDVWSEFGLLWEI FSLGASPYPGVKIDEBFCRLKEGTRMRA PDYTTPEMYQTMDC 1140
QY 1141 WHEDNORPSFSELVEHLGNLLQANNAQODGKOIYVLPMSSETLSMBDSGLSPTSVMSCM 1200
DB 1141 WHEDNORPSFSELVEHLGNLLQANNAQODGKOIYVLPMSSETLSMBDSGLSPTSVMSCM 1200
QY 1201 EEEVCDPEFHYDNTAGTSHYLONSKRKSRPVSVTFEDI PLEBEVVKIIPDSDQTDGSM 1260
DB 1201 EEEVCDPEFHYDNTAGTSHYLONSKRKSRPVSVTFEDI PLEBEVVKIIPDSDQTDGSM 1260
QY 1261 VLASELKLTLERDNRKLSPSFGGMPSKRESVASEGNOTSGYSGYSDDTDTTVYSSD 1320
DB 1261 VLASELKLTLERDNRKLSPSFGGMPSKRESVASEGNOTSGYSGYSDDTDTTVYSSD 1320
QY 1321 EAGLLKMDAANVAHDSCTTLR 1341
DB 1321 EAGLLKMDAANVAHDSCTTLR 1341

RESULT 14
PCT-US92-05401-6
; Sequence 6, Application PC/TUS9205401
; GENERAL INFORMATION:
; APPLICANT: Lemischke, Ihor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESS: IMCLONE SYSTEMS INCORPORATED
; STREET: 180 VARICK STREET
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/05401
; FILING DATE: 19920626
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Felt, Irving N.
; REGISTRATION NUMBER: 28, 601
; REFERENCE/DOCKET NUMBER: LEM-3-PPEPPT

TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-645-1405
; TELEFAX: 212-645-2054
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US92-05401-6

Query Match 99.3%; Score 6994; DB 4; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

1 MESKALLVALMFCVETPAASVGLTGDPLHPPKLS TQDQDILTIANTLTQITRCQRDL 60
DB 1 MESKALLVALMFCVETPAASVGLTGDPLHPPKLS TQDQDILTIANTLTQITRCQRDL 60
QY 61 WLPMAQRDSEERVLVTECGGDSIFCKTLTI PRVGNDTGAYKCSYRDVDIASTVYVYV 120
DB 61 WLPMAQRDSEERVLVTECGGDSIFCKTLTI PRVGNDTGAYKCSYRDVDIASTVYVYV 120
QY 121 RDRSPFIASVDQHGIVYITENKKTIVIPCRGISNLNYSLCARYPEKRFVPDGNRIS 180
DB 121 RDRSPFIASVDQHGIVYITENKKTIVIPCRGISNLNYSLCARYPEKRFVPDGNRIS 180
QY 181 WDSIEGFLPSYMSIYAQMVFCEAKINDETYSIMYIVVYGYRIYDIYLSPPHEIELSA 240
DB 181 WDSIEGFLPSYMSIYAQMVFCEAKINDETYSIMYIVVYGYRIYDIYLSPPHEIELSA 240
QY 241 GEKLVNCTARTELNVGDLFTWHSPPSKSHHKIYNRDPVKPFGTVAAKPISTLTIESVT 300
DB 241 GEKLVNCTARTELNVGDLFTWHSPPSKSHHKIYNRDPVKPFGTVAAKPISTLTIESVT 300
QY 301 KSDQGEYTCVASSGRMIRKRNTPFVRVHTKPIAFSGSKSLVEATVGSQVAIPVYKLSYP 360
DB 301 KSDQGEYTCVASSGRMIRKRNTPFVRVHTKPIAFSGSKSLVEATVGSQVAIPVYKLSYP 360
QY 361 APDIKYNRGRPIESNTMIYVDELTIMETVERDAGNTVILTPISMEKSHMVSILVN 420
DB 361 APDIKYNRGRPIESNTMIYVDELTIMETVERDAGNTVILTPISMEKSHMVSILVN 420
QY 421 VPOIGEKALISPMDSYOGTMOTLTCTVYANPPLPHIQTWQLEBASYPGQTSFYAC 480
DB 421 VPOIGEKALISPMDSYOGTMOTLTCTVYANPPLPHIQTWQLEBASYPGQTSFYAC 480
QY 481 KEWRHVEDFOGKNIEVTKNOYALIEGKNKTIVSTLVIOAANVSALYKCEALINKRGGRV 540
DB 481 KEWRHVEDFOGKNIEVTKNOYALIEGKNKTIVSTLVIOAANVSALYKCEALINKRGGRV 540
QY 541 ISFHYIRGEPEITVQPAOPTQESVSLCTADRNTPFENLTYKKGSOATSVHMGESLTPV 600
DB 541 ISFHYIRGEPEITVQPAOPTQESVSLCTADRNTPFENLTYKKGSOATSVHMGESLTPV 600
QY 601 CKNDALMKLNGTWFNSNTNLIIVAFONASLQODGVVCSAODKTKKRCHLVAKQLIIL 660
DB 601 CKNDALMKLNGTWFNSNTNLIIVAFONASLQODGVVCSAODKTKKRCHLVAKQLIIL 660
QY 661 ERMAPMIGNLNENOTTIGETIEVYCPASGNTPHITWFKONETLVEDSGIIVLDGNRNL 720
DB 661 ERMAPMIGNLNENOTTIGETIEVYCPASGNTPHITWFKONETLVEDSGIIVLDGNRNL 720
QY 721 TIRVRKEDGGLYTQACNVLCARAEFLFII EGAQEKTNLEVIILVGTAVIAMEFWLL 780
DB 721 TIRVRKEDGGLYTQACNVLCARAEFLFII EGAQEKTNLEVIILVGTAVIAMEFWLL 780
QY 781 VIVRTVRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEPPRDLKLGKPLGR 840
DB 781 VIVRTVRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEPPRDLKLGKPLGR 840
QY 841 GAFQGVIEADAFGIDKATCTVAVMKLEGAATSEHRLMSELKILIHIGHILNVNLL 900

Db 841 GAFQVIEADAFGIDKTKTCTVAVKMLKEGATSEHRALMSELKILIHGHILNVNLL 900
Qy 901 GACTKPGGLPMVIVFECFEGNLSTYLGRKNEFVYKSGARFRQGDYVGLSVDLKRR 960
Db 901 GACTKPGGLPMVIVFESKFGNLSTYLGRKNEFVYKSGARFRQGDYVGLSVDLKRR 960
Qy 961 LDSITSSQSSASSGVEEKSLSDVEEBEASEELYKDFLTLEHLTCYSFQVAKGMEFLASR 1020
Db 961 LDSITSSQSSASSGVEEKSLSDVEEBEASEELYKDFLTLEHLTCYSFQVAKGMEFLASR 1020
Qy 1021 KCIHRDLAARILISEKVVVICDFGLARDIYKDPDYRKGDARLPLKMAPEITFDREV 1080
Db 1021 KCIHRDLAARILISEKVVVICDFGLARDIYKDPDYRKGDARLPLKMAPEITFDREV 1080
Qy 1081 TIGSDVMSFVGLWEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTDEMVTQMLDC 1140
Db 1081 TIGSDVMSFVGLWEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTDEMVTQMLDC 1140
Qy 1141 WHEDPNORPSFSELVEHILGNLQANAQODGKDYIVLPMSETLMEEDSGLSLPTSPVSCM 1200
Db 1141 WHEDPNORPSFSELVEHILGNLQANAQODGKDYIVLPMSETLMEEDSGLSLPTSPVSCM 1200
Qy 1201 EEEVCDPKFYDNTAGISHTLONSKRKSRPVSVTFEDIPLEBEVAVIIPDDSGTDSGM 1260
Db 1201 EEEVCDPKFYDNTAGISHTLONSKRKSRPVSVTFEDIPLEBEVAVIIPDDSGTDSGM 1260
Qy 1261 VLASEELKLTLEDNRKLSPFGGMPKSKRESVASISGNSQTSYGOSGYHSDDTDTTVVSSD 1320
Db 1261 VLASEELKLTLEDNRKLSPFGGMPKSKRESVASISGNSQTSYGOSGYHSDDTDTTVVSSD 1320
Qy 1321 EAGLLKXVDAVHADSGTTLR 1341
Db 1321 EAGLLKXVDAVHADSGTTLQ 1341

RESULT 15
PCT-US92-09893-6
Sequence 6, Application PC/TUS9209893
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varlock Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09893
FILING DATE: 19921116
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7PT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-09893-6

Query Match 99.3%; Score 6994; DB 4; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MESKALLAVLMPFVETRAASVGLTGPFLPRKSTQKDLITLANTTLQITCGQRDL 60
Db 1 MESKGLLAVLMPFVEVTRAASVGLTGPFLPRKSTQKDLITLANTTLQITCGQRDL 60
Qy 61 WLPNARDSEERLVTECGGDSIPCKTLIPRVANGDCAVYKSYRDVDAIASTVYVYV 120
Db 61 WLPNARDSEERLVTECGGDSIPCKTLIPRVANGDCAVYKSYRDVDAIASTVYVYV 120
Qy 121 RDYSPFIASVDQHGIVITENKNTVIPCGRGISNLNVSICARYPEKRPVDGNRIS 180
Db 121 RDYSPFIASVDQHGIVITENKNTVIPCGRGISNLNVSICARYPEKRPVDGNRIS 180
Qy 181 WDSIFGTLPSYMSYAGMVFCEKINDETVQSIIMYVWVGRIYVILSPHEIELSA 240
Db 181 WDSIFGTLPSYMSYAGMVFCEKINDETVQSIIMYVWVGRIYVILSPHEIELSA 240
Qy 241 GEKLVNCTARTELNVGLDFTWSPSPSKSHKKIVNEDVAFPGTVAKMFLSTLTIESVT 300
Db 241 GEKLVNCTARTELNVGLDFTWSPSPSKSHKKIVNEDVAFPGTVAKMFLSTLTIESVT 300
Qy 301 KSDGEYTCVASSGGRMIRKRRTPVHTKPFIAFGSKMSLVEATVGSQVRIPVKYLSP 360
Db 301 KSDGEYTCVASSGGRMIRKRRTPVHTKPFIAFGSKMSLVEATVGSQVRIPVKYLSP 360
Qy 361 APDIKMYRNRPYESNTMTVGEDELTIMEYERDAGNYTILNPMISEKQSHVSLVN 420
Db 361 APDIKMYRNRPYESNTMTVGEDELTIMEYERDAGNYTILNPMISEKQSHVSLVN 420
Qy 421 VPPQIGEKALISPMDSYQGTMTLTCTVYANPPLHIIQWYQLEACSYRPGQTSFYAC 480
Db 421 VPPQIGEKALISPMDSYQGTMTLTCTVYANPPLHIIQWYQLEACSYRPGQTSFYAC 480
Qy 481 KEMRHVEDFOGKNIEVTXKQVALIEGKNKTVSTLVIQAANVSALYCEALINKAGERV 540
Db 481 KEMRHVEDFOGKNIEVTXKQVALIEGKNKTVSTLVIQAANVSALYCEALINKAGERV 540
Qy 541 ISPHVIRGPEITVOPAAQPTQESVSLCTADNTPFNLTWYLGSGATSYHMEESLTPV 600
Db 541 ISPHVIRGPEITVOPAAQPTQESVSLCTADNTPFNLTWYLGSGATSYHMEESLTPV 600
Qy 601 CKNLDALMKNGTMFNSNDIILVAFQNASLDQGDYVCSADPKTKRKHCHLVKQIIL 660
Db 601 CKNLDALMKNGTMFNSNDIILVAFQNASLDQGDYVCSADPKTKRKHCHLVKQIIL 660
Qy 661 ERNAPMITGNLENOTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGILRDGNRL 720
Db 661 ERNAPMITGNLENOTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGILRDGNRL 720
Qy 721 TIRVRKEDGGLTCCQCNVLGCARAEFLTIEGAQKTNLEVIIVGTAVIANEPWLL 780
Db 721 TIRVRKEDGGLTCCQCNVLGCARAEFLTIEGAQKTNLEVIIVGTAVIANEPWLL 780
Qy 781 VILVRLTVKRANBEGELKTGYLSIMDPDELPLDERCERLPYDASGMEPPDRRLKLGKPLGR 840
Db 781 VILVRLTVKRANBEGELKTGYLSIMDPDELPLDERCERLPYDASGMEPPDRRLKLGKPLGR 840
Qy 841 GAFQVIEADAFGIDKTKTCTVAVKMLKEGATSEHRALMSELKILIHGHILNVNLL 900
Db 841 GAFQVIEADAFGIDKTKTCTVAVKMLKEGATSEHRALMSELKILIHGHILNVNLL 900
Qy 901 GACTKPGGLPMVIVFECFEGNLSTYLGRKNEFVYKSGARFRQGDYVGLSVDLKRR 960
Db 901 GACTKPGGLPMVIVFESKFGNLSTYLGRKNEFVYKSGARFRQGDYVGLSVDLKRR 960
Qy 961 LDSITSSQSSASSGVEEKSLSDVEEBEASEELYKDFLTLEHLTCYSFQVAKGMEFLASR 1020
Db 961 LDSITSSQSSASSGVEEKSLSDVEEBEASEELYKDFLTLEHLTCYSFQVAKGMEFLASR 1020

Qy	1021	KCIHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMMAPETIFDRY	1080
Db	1021	KCIHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMMAPETIFDRY	1080
Qy	1081	TIQSDVMSFGVULMEIFSLGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMDC	1140
Db	1081	TIQSDVMSFGVULMEIFSLGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMDC	1140
Qy	1141	WHEDPNQRPSFSELVEHLGNLLOANAQODGKDIYVLPMSSETLSMEEDSGLSLPTSPVSCM	1200
Db	1141	WHEDPNQRPSFSELVEHLGNLLOANAQODGKDIYVLPMSSETLSMEEDSGLSLPTSPVSCM	1200
Qy	1201	EEEBVCDPKFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLBEPVKYIPDDSQDTSQM	1260
Db	1201	EEEBVCDPKFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLBEPVKYIPDDSQDTSQM	1260
Qy	1261	VLAASELKTLEDRNKLSPSFGGMPSPKSRRESVASBGSNOTSGYQSGYHSDTDITVYSSD	1320
Db	1261	VLAASELKTLEDRNKLSPSFGGMPSPKSRRESVASBGSNOTSGYQSGYHSDTDITVYSSD	1320
Qy	1321	EAGLLKQNVDAVAHADSGTTLR	1341
Db	1321	EAGLLKQNVDAVAHADSGTTLQ	1341

Search completed: January 30, 2006, 11:53:14
Job time : 33 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 30, 2006, 11:52:30 : Search time 121 Seconds
(without alignments)
4644.466 Million cell updates/sec

Title: US-10-090-183-6
Perfect score: 7046
Sequence: 1 MESKALLAVALMFCVETRAA.....KMDAAVHADSGTILRSPDV 1345

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.dep:*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.dep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.dep:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.dep:*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.dep:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.dep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	7046	100.0	1345	4 US-10-090-183-6	Sequence 6, Appl1
2	7020	99.6	1367	3 US-09-766-678-2	Sequence 2, Appl1
3	7020	99.6	1367	5 US-10-165-193A-10	Sequence 10, Appl1
4	7020	99.6	1367	5 US-10-799-782-2	Sequence 2, Appl1
5	6994	99.3	1367	3 US-09-919-408-6	Sequence 6, Appl1
6	6994	99.3	1367	3 US-09-872-136-6	Sequence 6, Appl1
7	6994	99.3	1367	5 US-10-639-603-6	Sequence 6, Appl1
8	6994	99.3	1367	6 US-11-030-539-6	Sequence 6, Appl1
9	6127.5	87.0	1356	4 US-10-022-939-2	Sequence 2, Appl1
10	6127.5	87.0	1356	4 US-10-100-405A-2	Sequence 2, Appl1
11	6127.5	87.0	1356	4 US-10-327-414-6	Sequence 6, Appl1
12	6127.5	87.0	1356	4 US-10-165-193A-11	Sequence 11, Appl1
13	6124.5	86.9	1356	4 US-10-090-183-2	Sequence 2, Appl1
14	6124.5	86.9	1356	4 US-10-394-322A-66	Sequence 66, Appl1
15	6124.5	86.9	1356	4 US-10-440-464-129	Sequence 129, Appl1
16	6124.5	86.9	1356	5 US-10-783-198-61	Sequence 61, Appl1
17	6124.5	86.9	1356	5 US-10-872-198-115	Sequence 115, Appl1
18	6124.5	86.9	1356	5 US-10-741-600-1469	Sequence 1469, Appl1
19	6124.5	86.9	1356	5 US-10-741-600-1471	Sequence 1471, Appl1
20	6124.5	86.9	1356	5 US-10-926-806-10	Sequence 10, Appl1
21	6124.5	86.9	1356	5 US-10-824-982-2	Sequence 2, Appl1
22	6124.5	86.9	1356	6 US-11-021-951-115	Sequence 115, Appl1
23	6123.5	86.9	1356	3 US-09-969-037-7	Sequence 7, Appl1
24	6123.5	86.9	1356	5 US-10-763-276-7	Sequence 7, Appl1
25	6092.5	86.5	1354	4 US-10-262-538-30	Sequence 30, Appl1
26	6092.5	86.5	1354	4 US-10-669-176-30	Sequence 30, Appl1
27	5855.5	83.1	1306	5 US-10-741-600-1470	Sequence 1470, Appl1

28	4428	60.0	806	3 US-09-766-678-5	Sequence 5, Appl1
29	4428	60.0	806	5 US-10-799-782-5	Sequence 5, Appl1
30	4196	59.6	805	4 US-10-036-869-34	Sequence 34, Appl1
31	3851	54.7	731	4 US-10-364-949-2	Sequence 2, Appl1
32	3343	47.4	789	4 US-10-101-018-15	Sequence 15, Appl1
33	3283	46.6	773	4 US-10-364-949-4	Sequence 4, Appl1
34	3245	46.1	764	4 US-10-105-901-2	Sequence 2, Appl1
35	3240	46.0	764	4 US-10-091-300-85	Sequence 85, Appl1
36	3240	46.0	764	5 US-10-482-630-137	Sequence 137, Appl1
37	3240	46.0	764	5 US-10-506-997-85	Sequence 85, Appl1
38	3143	44.6	942	4 US-10-449-609-8	Sequence 8, Appl1
39	3126	44.4	738	4 US-10-425-668-34	Sequence 34, Appl1
40	2792	39.6	664	4 US-10-101-018-13	Sequence 13, Appl1
41	2764.5	39.2	567	4 US-10-327-414-8	Sequence 8, Appl1
42	2746.5	39.0	1363	3 US-09-375-248-19	Sequence 19, Appl1
43	2746.5	39.0	1363	4 US-10-661-740-19	Sequence 19, Appl1
44	2746.5	39.0	1363	5 US-10-473-127-951	Sequence 951, Appl1
45	2733.5	38.8	1368	4 US-10-105-901-34	Sequence 34, Appl1

ALIGNMENTS

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RESULT 1
US-10-090-183-6
; Sequence 6, Application US/10090183
; Publication No. US20030185602A1
; GENERAL INFORMATION:
; APPLICANT: The Scripps Research Institute
; APPLICANT: Ralph A. Reisfeld
; APPLICANT: Andrew G. Niehammer
; APPLICANT: Rong Xiang
; TITLE OF INVENTION: DNA VACCINE AGAINST PROLIFERATING
; TITLE OF INVENTION: ENDOTHelial CELLS AND METHODS OF USE THEREOF
; FILE REFERENCE: TSRI-829.0
; CURRENT APPLICATION NUMBER: US/10/090.183
; CURRENT FILING DATE: 2002-03-02
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1345
; TYPE: PRT
; ORGANISM: mouse
US-10-090-183-6
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Query Match 100.0%; Score 7046; DB 4; Length 1345;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MESKALLAVALMFCVETRAASVGLTGDPLHPKSTOKDILTLANTTLQTCRGORDD	60
DB	1	MESKALLAVALMFCVETRAASVGLTGDPLHPKSTOKDILTLANTTLQTCRGORDD	60
QY	61	WLMPAQRDSERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVDIASVYVVV	120
DB	61	WLMPAQRDSERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVDIASVYVVV	120
QY	121	RDYSPFPLASVSDQGIYITENKKTIVYIPCRGISLUNANSLCARYPEKRPVPGNRIS	180
DB	121	RDYSPFPLASVSDQGIYITENKKTIVYIPCRGISLUNANSLCARYPEKRPVPGNRIS	180
QY	181	WDSEIGFTLPSYMTSYAGMVFCEAKINDETQSIWYIVVWGYRYVDVILSPHEIESA	240
DB	181	WDSEIGFTLPSYMTSYAGMVFCEAKINDETQSIWYIVVWGYRYVDVILSPHEIESA	240
QY	241	GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIVNRDVKPFGTVAQMFSLTITIEVT	300
DB	241	GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIVNRDVKPFGTVAQMFSLTITIEVT	300
QY	301	KSDQSEYTCVASSGGMITGRNRTFVARVHTKPTFIAPSSGKSLVEATVGSQVRIPVYVLSYP	360
DB	301	KSDQSEYTCVASSGGMITGRNRTFVARVHTKPTFIAPSSGKSLVEATVGSQVRIPVYVLSYP	360


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QY 361 APDIKMYNNGRPIESNTYMTVIGDELTIMEVTERDAGNTVTLITNPI SNEKOSHWSLVVN 420
DB 361 APDIKMYNNGRPIESNTYMTVIGDELTIMEVTERDAGNTVTLITNPI SNEKOSHWSLVVN 420
QY 421 VPPOIGKALISPMOSYOGTMOQLTCTVYANPPLHHIOMYMOLEBACSYPGOTSYPAC 480
DB 421 VPPOIGKALISPMOSYOGTMOQLTCTVYANPPLHHIOMYMOLEBACSYPGOTSYPAC 480
QY 481 KEMRWEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIOANVASALYKCEALINKAGRGERV 540
DB 481 KEMRWEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIOANVASALYKCEALINKAGRGERV 540
QY 541 ISFHVIRPBEITVOPAAOPTBOESVSLCTADRNTPENULTWKLGSOATSYMGESLTPV 600
DB 541 ISFHVIRPBEITVOPAAOPTBOESVSLCTADRNTPENULTWKLGSOATSYMGESLTPV 600
QY 601 CKNDALMKLNGTMSNSTNDILIVAFOVASLODGDYVCSAODKTKRKHCLVYQQLIL 660
DB 601 CKNDALMKLNGTMSNSTNDILIVAFOVASLODGDYVCSAODKTKRKHCLVYQQLIL 660
QY 661 ERMAPMITGNLENOTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENOTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
QY 721 TIRRVKRDGGLYTCOACNVLGCAAEFTLFTIEGAOEXTNLEVILLVGTAVIAMEFWLL 780
DB 721 TIRRVKRDGGLYTCOACNVLGCAAEFTLFTIEGAOEXTNLEVILLVGTAVIAMEFWLL 780
QY 781 VIVLRTVRANBEGELKTGYLSIYVMDPDLPLDERCERLPYDASKMEFRDLKIGKPLGR 840
DB 781 VIVLRTVRANBEGELKTGYLSIYVMDPDLPLDERCERLPYDASKMEFRDLKIGKPLGR 840
QY 841 GAFQGVIEBADAFGIDKTAICTKTAIVKMLKEGATSHSRALMSELKILIHIGHILNVNLL 900
DB 841 GAFQGVIEBADAFGIDKTAICTKTAIVKMLKEGATSHSRALMSELKILIHIGHILNVNLL 900
QY 901 GACTKPGPLWVYIEFCFGNULSTYLRKNEFVYKSKGARFROGKDYVSELVDLKR 960
DB 901 GACTKPGPLWVYIEFCFGNULSTYLRKNEFVYKSKGARFROGKDYVSELVDLKR 960
QY 961 LDSITSSOSSASSGVEEKSLSDVBEESAELYDPLLEHLICYSFQVAKGMEFLASR 1020
DB 961 LDSITSSOSSASSGVEEKSLSDVBEESAELYDPLLEHLICYSFQVAKGMEFLASR 1020
QY 1021 KCIHRDLAARNILSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPETIFDRVY 1080
DB 1021 KCIHRDLAARNILSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPETIFDRVY 1080
QY 1081 TIQSDVMSFGVLLWEIFSLGASPYGVKIDBEFCRLKEGTRMRAPDYTTDEMOTMLDC 1140
DB 1081 TIQSDVMSFGVLLWEIFSLGASPYGVKIDBEFCRLKEGTRMRAPDYTTDEMOTMLDC 1140
QY 1141 WHEPNORPSFSELVEHGNLLOANAODGKOYILPMSETLSMEEDSGLSLPTSPVSCM 1200
DB 1141 WHEPNORPSFSELVEHGNLLOANAODGKOYILPMSETLSMEEDSGLSLPTSPVSCM 1200
QY 1201 EEEVCDKPFYDNTAGISHYLONSKRKSRPVSVKTFEDIPLEBPEVAVIPDDSGTDSGM 1260
DB 1201 EEEVCDKPFYDNTAGISHYLONSKRKSRPVSVKTFEDIPLEBPEVAVIPDDSGTDSGM 1260
QY 1261 VLASELKTLEDNRKLSFGGMPSKRESVVASGSGTSGYSGGHSDDTDTTVVSSD 1320
DB 1261 VLASELKTLEDNRKLSFGGMPSKRESVVASGSGTSGYSGGHSDDTDTTVVSSD 1320
QY 1321 EAGLLKMWDAVHADSGTTLRSPPV 1345
DB 1321 EAGLLKMWDAVHADSGTTLRSPPV 1345

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RESULT 2
 US-09-766-678-2
 ; Sequence 2, Application US/09766678
 ; Patent No. US20020081650A1

```

GENERAL INFORMATION:
APPLICANT: Ullrich, Axel
Rissau, Werner
Mullauer, Birgit
Gazit, Avit
Levitzki, Alex
TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
Endothelial Growth Factor
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678
FILING DATE: 25-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-766-678-2
Query Match 99.6%; Score 7020; DB 3; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSGKXIDILITLANTTLQITCRGQRDL 60
DB 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSGKXIDILITLANTTLQITCRGQRDL 60
QY 61 WMPNAGRDBERLALYTCGGGDSIFCKTLTIPRVGNNDGAYKCSRDVDAIASTVYVYV 120
DB 61 WMPNAGRDBERLALYTCGGGDSIFCKTLTIPRVGNNDGAYKCSRDVDAIASTVYVYV 120
QY 121 RDYSPFIASVDHGIYITENKKTUVI PCRGSISNLNVSICARYPEKRFVDDGRIS 180
DB 121 RDYSPFIASVDHGIYITENKKTUVI PCRGSISNLNVSICARYPEKRFVDDGRIS 180
QY 181 WDSIEGFTLPSYMSYAGWFCSEKINDETYOSIMYIVVVGVRIYDVILSPHEIELISA 240
DB 181 WDSIEGFTLPSYMSYAGWFCSEKINDETYOSIMYIVVVGVRIYDVILSPHEIELISA 240
QY 241 GEKVLNCTARTELNVLDTWHSPPSKSHHKITVNDVYKPFPGTVAKMFLSTLTLSVT 300
DB 241 GEKVLNCTARTELNVLDTWHSPPSKSHHKITVNDVYKPFPGTVAKMFLSTLTLSVT 300
QY 301 KSDQGEYTCVASSGRMKRARTFVRVHTKPFIAFGSGKMSLVEATVGSQVRI PVKYLSTP 360
DB 301 KSDQGEYTCVASSGRMKRARTFVRVHTKPFIAFGSGKMSLVEATVGSQVRI PVKYLSTP 360

```

QY 361 APDIKWNKGRPIESNYTMI VGEDELTIMEVTERDAGNTVILTNPI SMEKOSHMSLVVN 420
DB 361 APDIKWNKGRPIESNYTMI VGEDELTIMEVTERDAGNTVILTNPI SMEKOSHMSLVVN 420
QY 421 VPQIGKALISPMDSYQYGTMTLCTVYANPPLHNI QWVQJLEACSYRPGQTSYPAC 480
DB 421 VPQIGKALISPMDSYQYGTMTLCTVYANPPLHNI QWVQJLEACSYRPGQTSYPAC 480
QY 481 KEMRHVEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIQANVSALYKCEAIKAGRGERV 540
DB 481 KEMRHVEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIQANVSALYKCEAIKAGRGERV 540
QY 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTPENLTWYKLGSOATSVHMGESLTPV 600
DB 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTPENLTWYKLGSOATSVHMGESLTPV 600
QY 601 CKNDALMKLNGTMSNSTNDILIVAFONASLODQGDVYCSAODKTKRRCCLVQQLITL 660
DB 601 CKNDALMKLNGTMSNSTNDILIVAFONASLODQGDVYCSAODKTKRRCCLVQQLITL 660
QY 661 ERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
QY 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
DB 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
QY 781 VIVLRVGRANBEGELKTGYLSIVMPDELPLDERCEBRLPYDASKMEFPDRDLKCKPGR 840
DB 781 VIVLRVGRANBEGELKTGYLSIVMPDELPLDERCEBRLPYDASKMEFPDRDLKCKPGR 840
QY 841 GAFQGVIRADAFGIDKTACTVAVKMLKEGATSEHSEHALMSELKILHIGHLNVNML 900
DB 841 GAFQGVIRADAFGIDKTACTVAVKMLKEGATSEHSEHALMSELKILHIGHLNVNML 900
QY 901 GACTKPGPPLWVIVFCKFGNLSITLGRKNEFVYKSKGARFRQCKDYVGLSDVLR 960
DB 901 GACTKPGPPLWVIVFCKFGNLSITLGRKNEFVYKSKGARFRQCKDYVGLSDVLR 960
QY 961 LDSITSSQSSASGVEKEKSLSDVEEBASEELYKDFLTLEHLICYSFQVAKMEFLASR 1020
DB 961 LDSITSSQSSASGVEKEKSLSDVEEBASEELYKDFLTLEHLICYSFQVAKMEFLASR 1020
QY 1021 KCIHRDLAARNIILSEKRVVVKICDFGLARDYKDDVYRKGDARLPLKMAPEITTFDRVY 1080
DB 1021 KCIHRDLAARNIILSEKRVVVKICDFGLARDYKDDVYRKGDARLPLKMAPEITTFDRVY 1080
QY 1081 TIQSDVMSFGVYLMEIFSLGASPYPGVKIDEEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
DB 1081 TIQSDVMSFGVYLMEIFSLGASPYPGVKIDEEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
QY 1141 WHEDPNQPSFSELVEHIGNLLOANAQODKDYIVLPMSETLSMEDSGLSIPTSPVSCM 1200
DB 1141 WHEDPNQPSFSELVEHIGNLLOANAQODKDYIVLPMSETLSMEDSGLSIPTSPVSCM 1200
QY 1201 EEEBVCDBKPFYDNTAGISHTLONSKRSPVSVKTFPDIPLEEBEVAVIPDDOSTDSCM 1260
DB 1201 EEEBVCDBKPFYDNTAGISHTLONSKRSPVSVKTFPDIPLEEBEVAVIPDDOSTDSCM 1260
QY 1261 VLASEBELKTLIEDRNKLSPSFGGMPSKRESVASGSGNOTSGYSGHSDDTDTTVSSD 1320
DB 1261 VLASEBELKTLIEDRNKLSPSFGGMPSKRESVASGSGNOTSGYSGHSDDTDTTVSSD 1320
QY 1321 EAGLLKMDAAVHADSGTTLR 1341
DB 1321 EAGLLKMDAAVHADSGTTLR 1341

RESULT 3
US-10-165-193A-10
; Sequence 10, Application US/10165193A
; Publication No. US20030207391A1

/ GENERAL INFORMATION:
/ APPLICANT: HELEN PAPA
/ TITLE OF INVENTION: BINDING PROTEIN
/ FILE REFERENCE: 1396-1-00
/ CURRENT FILING DATE: 2003-01-13
/ PRIOR APPLICATION NUMBER: PCT/GB00/04693
/ PRIOR FILING DATE: 2000-12-07
/ PRIOR APPLICATION NUMBER: GB9928950.6
/ PRIOR FILING DATE: 1999-12-07
/ NUMBER OF SEQ ID NOS: 16
/ SOFTWARE: SeqMan9, version 1.02
/ SEQ ID NO: 10
/ LENGTH: 1367
/ TYPE: PRT
/ ORGANISM: Mus musculus
US-10-165-193A-10

Query Match 99.6%; Score 7020; DB 4; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MESKALLAVALMFCVETPAASVGLTGDPLHPKUSTOQDIIITLANTLLOITTCGQRLD 60
DB 1 MESKALLAVALMFCVETPAASVGLTGDPLHPKUSTOQDIIITLANTLLOITTCGQRLD 60
QY 61 WLMPPAQRDSBERVLYTECGGDSIFCKTLTIPRVGNDTGAYKCSYRDVDIASTVYVYV 120
DB 61 WLMPPAQRDSBERVLYTECGGDSIFCKTLTIPRVGNDTGAYKCSYRDVDIASTVYVYV 120
QY 121 RDYSPFIASVSDQGIYIITENKNTVIFCRGSI SMANVSLCARYPEKSPVDPGRNIS 180
DB 121 RDYSPFIASVSDQGIYIITENKNTVIFCRGSI SMANVSLCARYPEKSPVDPGRNIS 180
QY 181 WDSIEGFTLPSYMTSYAGMVFCEAKINDETQSIYIVVYGYRIYDVLSPHEIEISA 240
DB 181 WDSIEGFTLPSYMTSYAGMVFCEAKINDETQSIYIVVYGYRIYDVLSPHEIEISA 240
QY 241 GEKVLNCTARTELNVGIDFTWSPSPSKHHKIVNRPVKKPFGVAAKPLSTLIESVT 300
DB 241 GEKVLNCTARTELNVGIDFTWSPSPSKHHKIVNRPVKKPFGVAAKPLSTLIESVT 300
QY 301 KSDQGEYTCVASSGMIKRNRTFVRVHTKPFIAFGSKGKSLVEATVGSQVH1PVKYLSTP 360
DB 301 KSDQGEYTCVASSGMIKRNRTFVRVHTKPFIAFGSKGKSLVEATVGSQVH1PVKYLSTP 360
QY 361 APDIKWNKGRPIESNYTMI VGEDELTIMEVTERDAGNTVILTNPI SMEKOSHMSLVVN 420
DB 361 APDIKWNKGRPIESNYTMI VGEDELTIMEVTERDAGNTVILTNPI SMEKOSHMSLVVN 420
QY 421 VPQIGKALISPMDSYQYGTMTLCTVYANPPLHNI QWVQJLEACSYRPGQTSYPAC 480
DB 421 VPQIGKALISPMDSYQYGTMTLCTVYANPPLHNI QWVQJLEACSYRPGQTSYPAC 480
QY 481 KEMRHVEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIQANVSALYKCEAIKAGRGERV 540
DB 481 KEMRHVEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIQANVSALYKCEAIKAGRGERV 540
QY 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTPENLTWYKLGSOATSVHMGESLTPV 600
DB 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTPENLTWYKLGSOATSVHMGESLTPV 600
QY 601 CKNDALMKLNGTMSNSTNDILIVAFONASLODQGDVYCSAODKTKRRCCLVQQLITL 660
DB 601 CKNDALMKLNGTMSNSTNDILIVAFONASLODQGDVYCSAODKTKRRCCLVQQLITL 660
QY 661 ERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
QY 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
DB 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780

QY 781 VIATVRANEGELKTGYLSVMPDDELPLDERCERLLPYDASKWEFPRDRKLKGLKPLGR 840
DB 781 VIATVRANEGELKTGYLSVMPDDELPLDERCERLLPYDASKWEFPRDRKLKGLKPLGR 840
QY 841 GAFQVITADAFGIDKTATCKTVAVKMLKEGATSEHBMSELKILHGHILNVNLL 900
DB 841 GAFQVITADAFGIDKTATCKTVAVKMLKEGATSEHBMSELKILHGHILNVNLL 900
QY 901 GACTKPGPLMWIVFECFKNLSTYLKGRNMFVYKSKGARFRQGXDVGLSLVLR 960
DB 901 GACTKPGPLMWIVFECFKNLSTYLKGRNMFVYKSKGARFRQGXDVGLSLVLR 960
QY 961 LDSITSSQSSASGVEEKSLSDVVEEASEELLYDPLTEHLICYSFOVAKGMEFLASR 1020
DB 961 LDSITSSQSSASGVEEKSLSDVVEEASEELLYDPLTEHLICYSFOVAKGMEFLASR 1020
QY 1021 KCIHDLAARNITLSEKNVVKICDGLARDIYKDDYRKGDARPLKMAPEITFEDRY 1080
DB 1021 KCIHDLAARNITLSEKNVVKICDGLARDIYKDDYRKGDARPLKMAPEITFEDRY 1080
QY 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYOTMDC 1140
DB 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYOTMDC 1140
QY 1141 WHEDPNQPSFSELVEHLGNLLQANAQODKQYIVLPMSETLSMEDSGLSIPTSPVSCM 1200
DB 1141 WHEDPNQPSFSELVEHLGNLLQANAQODKQYIVLPMSETLSMEDSGLSIPTSPVSCM 1200
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DB 1201 EEEBVCDFKPHYDNTAGISHYLQNSKRSRPSVVTFFEDIPLEBEVAVIIPDOSTJSGM 1260
QY 1261 VLASEELKTLIEDRNLKLSFGGMMPSKRESVASGNSQTSYGSGHSDDTDTTVVSSD 1320
DB 1261 VLASEELKTLIEDRNLKLSFGGMMPSKRESVASGNSQTSYGSGHSDDTDTTVVSSD 1320
QY 1321 EAGLLKMWDAVHADSGTTLR 1341
DB 1321 EAGLLKMWDAVHADSGTTLR 1341

RESULT 4
US-10-799-782-2
; Sequence 2, Application US/10799782
; Publication No. US20050107321A1
; GENERAL INFORMATION:
; APPLICANT: Ulirich, Axel
; Risaau, Werner
; Millaener, Birgit
; Gazit, Aviv
; Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10799,782
; FILING DATE: 15-Mar-2004
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/766,678

; FILING DATE: 25-Jan-2001
; APPLICATION NUMBER: 08/193,829
; FILING DATE: 09-FEB-1994
; ACTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-799-782-2
Query Match 99.6%; Score 7020; DB 5; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MESKALLAVALMFCVETRAASVGLTSDPLHPKLSIQKDLITLANTTLQITCRGORDLD 60
DB 1 MESKALLAVALMFCVETRAASVGLTSDPLHPKLSIQKDLITLANTTLQITCRGORDLD 60
QY 61 WLPNAPQDSBERLYMECGGDSIFCKTLTPRVGNDDGAYKCSRDVIASTVYVV 120
DB 61 WLPNAPQDSBERLYMECGGDSIFCKTLTPRVGNDDGAYKCSRDVIASTVYVV 120
QY 121 RDYSPFIASVSDQHGIVYITENKNTVYIPCRGSIINLWVSLCARYPEKRFVDDGNRIS 180
DB 121 RDYSPFIASVSDQHGIVYITENKNTVYIPCRGSIINLWVSLCARYPEKRFVDDGNRIS 180
QY 181 WDSIEGFTLPSYMSIVAGVFCFAKINDETYQSIYIVVVGYRIYVILSPPEIELSA 240
DB 181 WDSIEGFTLPSYMSIVAGVFCFAKINDETYQSIYIVVVGYRIYVILSPPEIELSA 240
QY 241 GEKLVNCTARTELNVLDTTWHSPPSKSHHKIIVNDVVPFGTVAKMFLSTLTISVT 300
DB 241 GEKLVNCTARTELNVLDTTWHSPPSKSHHKIIVNDVVPFGTVAKMFLSTLTISVT 300
QY 301 KSDGEYTCVASSGRMKRRTFVRVTKRPFIAFGSKSLVEATVSSQYRIPVKYLSTP 360
DB 301 KSDGEYTCVASSGRMKRRTFVRVTKRPFIAFGSKSLVEATVSSQYRIPVKYLSTP 360
QY 361 APDIKMYRNGRPLESNTYMTIVGDELTIMEVTERDAGNYTVILNPISEKQSHVSLVN 420
DB 361 APDIKMYRNGRPLESNTYMTIVGDELTIMEVTERDAGNYTVILNPISEKQSHVSLVN 420
QY 421 VPPQIGKALISPDSDQYGTMTCTTYANPPLHIQYTWOLEACSRPGTSPYAC 480
DB 421 VPPQIGKALISPDSDQYGTMTCTTYANPPLHIQYTWOLEACSRPGTSPYAC 480
QY 481 KEMRHVEDPQGNKIEYTKQYVALIBGNKTVESTLVIAQNVASLYCEALNKAGREBRV 540
DB 481 KEMRHVEDPQGNKIEYTKQYVALIBGNKTVESTLVIAQNVASLYCEALNKAGREBRV 540
QY 541 ISFHVIRGPEITVQPAQPTQESVSLCTADRNTFENLTWYKLGQATSVHMGESLTPV 600
DB 541 ISFHVIRGPEITVQPAQPTQESVSLCTADRNTFENLTWYKLGQATSVHMGESLTPV 600
QY 601 CKXLDALMKLNGTMSSTNDILIVAFQNASLDDQDGYVSADQKTKKXKCLVKQLIIL 660
DB 601 CKXLDALMKLNGTMSSTNDILIVAFQNASLDDQDGYVSADQKTKKXKCLVKQLIIL 660
QY 661 ERNAPMTGNLENOTTTIGETIEVTCASGNPTPHITWFDONETLVEDSGIIVLDGRNLT 720
DB 661 ERNAPMTGNLENOTTTIGETIEVTCASGNPTPHITWFDONETLVEDSGIIVLDGRNLT 720
QY 721 TIRVRKEDGLYTCQAQNVLCGARAETLPIIBGAQEKTNLEVIILVGTAVIAMFWILL 780

Db 721 TIRRRKDDGGLYTQACNVGCAAEFLFIIEGAEQETNLEVIILVGAIVAMFWMILL 780
Qy 781 VIYLRTRVRANEGELKTGYLSIVMDPELPLDERGERTPYDASKMEFPDRKLKGPGR 840
Db 781 VIYLRTRVRANEGELKTGYLSIVMDPELPLDERGERTPYDASKMEFPDRKLKGPGR 840
Qy 841 GAFQGVIEADAFGIDKTAICTKTAIVAKMLKEGATSEHRALMSELKILIHIGHILNVNLL 900
Db 841 GAFQGVIEADAFGIDKTAICTKTAIVAKMLKEGATSEHRALMSELKILIHIGHILNVNLL 900
Qy 901 GACTFRGGPLMYIVFECFRGNISTLRGRNFPVYKSGARFRQCKDYVGLSDLKRR 960
Db 901 GACTFRGGPLMYIVFECFRGNISTLRGRNFPVYKSGARFRQCKDYVGLSDLKRR 960
Qy 961 LDSITSQSSASGSGVEEKSLSDVEEBSEELYNDFLLEHLICYSFOVAKGMEFLASR 1020
Db 961 LDSITSQSSASGSGVEEKSLSDVEEBSEELYNDFLLEHLICYSFOVAKGMEFLASR 1020
Qy 1021 KCIRHDLAARNILSEKQVVKICDFGLARDIYKDPYVRKGDARLPLKMAPEITFDVRY 1080
Db 1021 KCIRHDLAARNILSEKQVVKICDFGLARDIYKDPYVRKGDARLPLKMAPEITFDVRY 1080
Qy 1081 TIQSDVMSFGVYLMEIFSLGASPYGVKIDEEFCRLKGRMRAPDYTPPEMYQTMDC 1140
Db 1081 TIQSDVMSFGVYLMEIFSLGASPYGVKIDEEFCRLKGRMRAPDYTPPEMYQTMDC 1140
Qy 1141 WHEDNORPSEFELVEHGNLLQANAODGKDIYLPMSSETLMSMEDGLSLPTS PVS CM 1200
Db 1141 WHEDNORPSEFELVEHGNLLQANAODGKDIYLPMSSETLMSMEDGLSLPTS PVS CM 1200
Qy 1201 EEEVCDKPFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLEBEVAVKIPDDSGTDSGM 1260
Db 1201 EEEVCDKPFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLEBEVAVKIPDDSGTDSGM 1260
Qy 1261 VLASEELKTLBEDRNKLSPSFGGMPKSKRESVVASGSGNQTSGYSGYSDDTDTTVYSSD 1320
Db 1261 VLASEELKTLBEDRNKLSPSFGGMPKSKRESVVASGSGNQTSGYSGYSDDTDTTVYSSD 1320
Qy 1321 EAGLLKQWDAVVAHDSGTTLR 1341
Db 1321 EAGLLKQWDAVVAHDSGTTLR 1341

RESULT 5
US-09-919-408-6
Sequence 6, Application US/09919408
Patent No. US20020072077A1
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varlick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/919,408
FILING DATE: 31-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/977,451
FILING DATE: <Unknown>
APPLICATION NUMBER: US 07/906,397

FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reic, Iyting N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-919-408-6
Query Match 99.3%; Score 6994; DB 3; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
Qy 1 MESKALLAVALMFCYETRAASVGLTGDPLHPPKSLSTOKDILITLANTLQITCRGQRDLD 60
Db 1 MESKALLAVALMFCYETRAASVGLTGDPLHPPKSLSTOKDILITLANTLQITCRGQRDLD 60
Qy 61 WLPMPAQRDSERYLVYNECGGGDSIFCKTLTIPRVNGDGTAYKCSYSDVDVIASVYVYV 120
Db 61 WLPMPAQRDSERYLVYNECGGGDSIFCKTLTIPRVNGDGTAYKCSYSDVDVIASVYVYV 120
Qy 121 RDSRSPFIASVSDQGIYVITENKNTVIVPCRGISMLANTSLCARYPEKEFPVPGNRIS 180
Db 121 RDSRSPFIASVSDQGIYVITENKNTVIVPCRGISMLANTSLCARYPEKEFPVPGNRIS 180
Qy 181 WDSEIGFTLPSYMSYAGVFCFAKINDETYQSIWYIVVVVGYRIYVILSPHEIELISA 240
Db 181 WDSEIGFTLPSYMSYAGVFCFAKINDETYQSIWYIVVVVGYRIYVILSPHEIELISA 240
Qy 241 GEKLVNCTATTELVAGDFTFWHSPRSKSHKKTIVNRVVRFPFGVAAKMFSLTLEBSV 300
Db 241 GEKLVNCTATTELVAGDFTFWHSPRSKSHKKTIVNRVVRFPFGVAAKMFSLTLEBSV 300
Qy 301 KSDQGEYTCVASSGGMIRKARTFVAVHTKPIIARSGSKSLVEATVSGQVAPVYKLSYP 360
Db 301 KSDQGEYTCVASSGGMIRKARTFVAVHTKPIIARSGSKSLVEATVSGQVAPVYKLSYP 360
Qy 361 APDIKMYRNGRPISNSYTMIVGDELITMEYTERDAGNTVILINPISMEKOSHMSVLYVN 420
Db 361 APDIKMYRNGRPISNSYTMIVGDELITMEYTERDAGNTVILINPISMEKOSHMSVLYVN 420
Qy 421 VPPOIGERKALISPMDSYQYGMQTLCTVYANPPLHIIQWVWOLEEACSYRPGQISPAAC 480
Db 421 VPPOIGERKALISPMDSYQYGMQTLCTVYANPPLHIIQWVWOLEEACSYRPGQISPAAC 480
Qy 481 KEMRHEVEDFOGANKIEVKNOYALIEGKKTIVSTLVIQAAVVSALYKCEALINKAGRGRRV 540
Db 481 KEMRHEVEDFOGANKIEVKNOYALIEGKKTIVSTLVIQAAVVSALYKCEALINKAGRGRRV 540
Qy 541 ISFHVIRPEITVPPAAQPTQESVSLCTADRNTFENLTVYKLGSOATVHMGESLTPV 600

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Db 541 ISFHVIRGPETITVOAPAQPTQESVSLICTADRNTEFNLTWYKLGSAQTSVMGESLTPV 600
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Db 601 CKNLDALMKLNGTMSNSTNDILVAFQNASLQDQGVYCSAODKTKRRLCLVQKLIIL 660
Qy 661 ERMAPMTIGNENQTTTIGETIEVTCPSASNPPTHTWPKONETLVEDSGIARDGNRL 720
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Db 721 TIRVRKXEDGGALYTCQACNVAGCAAEFLPIIEGAEKTNLEVIIIVGTAVIAPFELL 780
Qy 781 VILVTRVRANEGELKTGYLSIYVMDPDLPLDERCERLPYDASKWEPFRDLKLGKPLGR 840
Db 781 VILVTRVRANEGELKTGYLSIYVMDPDLPLDERCERLPYDASKWEPFRDLKLGKPLGR 840
Qy 841 GAFQGVLEADAFGIDKTAICTVAVKMLKEGATSEHRALMSELKILIHGHILNVNLL 900
Db 841 GAFQGVLEADAFGIDKTAICTVAVKMLKEGATSEHRALMSELKILIHGHILNVNLL 900
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Db 901 GACTKPGSLVAVIYEFCKEGLSTYLRGRNEFVYKSGARFQCKDYVELSDLKRR 960
Qy 961 LDSITSSQSSASSGFVEEKSLSDYEEERASELYKDFLTLEHLICYSFQVAKGMEFLASR 1020
Db 961 LDSITSSQSSASSGFVEEKSLSDYEEERASELYKDFLTLEHLICYSFQVAKGMEFLASR 1020
Qy 1021 KCIRHDLAARNIILSEKRVKICDFGLARDIYKDPDYRKDARLPLKMAPEITFDPRY 1080
Db 1021 KCIRHDLAARNIILSEKRVKICDFGLARDIYKDPDYRKDARLPLKMAPEITFDPRY 1080
Qy 1081 TIQSDVMSFGVLWEIFSLGASPYVGVKIDEEFCRLKEGTRMRAPDTTEEMOTMLDC 1140
Db 1081 TIQSDVMSFGVLWEIFSLGASPYVGVKIDEEFCRLKEGTRMRAPDTTEEMOTMLDC 1140
Qy 1141 WHEDPNQPSFSEIVEHLGNLQANAOQDGDYIVLPMSSETLSMEEDSGLSLPTS PVS CM 1200
Db 1141 WHEDPNQPSFSEIVEHLGNLQANAOQDGDYIVLPMSSETLSMEEDSGLSLPTS PVS CM 1200
Qy 1201 EEEVCDPKFHYDNTAGISHYLQNSKRRKSPVSVKTFEDIPLEBEVKVTPDSDQSDSGM 1260
Db 1201 EEEVCDPKFHYDNTAGISHYLQNSKRRKSPVSVKTFEDIPLEBEVKVTPDSDQSDSGM 1260
Qy 1261 VLASEELKTLEDNRKLSPSGMMPSKSRRESVASGNSQTSGYSDSDTDTTVYSSD 1320
Db 1261 VLASEELKTLEDNRKLSPSGMMPSKSRRESVASGNSQTSGYSDSDTDTTVYSSD 1320
Qy 1321 EAGLLKMWDAVHADSGTTLR 1341
Db 1321 EAGLLKMWDAVHADSGTTLQ 1341

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RESULT 6
; Sequence 6, Application US/09872136
; Patent No. US20020119545A1
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Thor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Imclone Systems Incorporated
; STREET: 180 Varlick Street
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/872,136
; FILING DATE: 01-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/208,786
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US/09/021,324
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US/07/977,451
; FILING DATE: 1992-11-19
; APPLICATION NUMBER: US 07/906,397
; FILING DATE: 26-JUN-1992
; APPLICATION NUMBER: US PCT/US92/05401
; FILING DATE: 26-JUN-1992
; APPLICATION NUMBER: TW 81102961
; FILING DATE: 15-APR-1992
; APPLICATION NUMBER: US PCT/US92/02750
; FILING DATE: 02-APR-1992
; APPLICATION NUMBER: US 07/813,593
; FILING DATE: 24-DEC-1991
; APPLICATION NUMBER: US 07/793,065
; FILING DATE: 15-NOV-1991
; APPLICATION NUMBER: US 07/728,913
; FILING DATE: 28-JUN-1991
; APPLICATION NUMBER: US 07/679,666
; FILING DATE: 02-APR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Felt, Irving N.
; REGISTRATION NUMBER: 28,601
; REFERENCE/DOCKET NUMBER: LEM-3-7P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-645-1405
; TELEFAX: 212-645-2054
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-872-136-6

Query Match 99.3%; Score 6994; DB 3; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSLTKGDIITLANTTLQITCRGORDLD 60
Db 1 MESKGLAVALMFCVETRAASVGLTGDFLHPKLSLTKGDIITLANTTLQITCRGORDLD 60
Qy 61 WLMPNAQRDSEERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSRYDVDAIASTVYVV 120
Db 61 WLMPNAQRDSEERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSRYDVDAIASTVYVV 120
Qy 121 RDYRSPFIASVSDHGVITTEKNKTVVPCRGSTSNLNVSLCARPEKRFVDGNRIS 180
Db 121 RDYRSPFIASVSDHGVITTEKNKTVVPCRGSTSNLNVSLCARPEKRFVDGNRIS 180
Qy 181 WDSIEGFTLSYMSYAGWFCBAKINDETYQSIYIVVVGRIYVILSPHEIELSA 240
Db 181 WDSIEGFTLSYMSYAGWFCBAKINDETYQSIYIVVVGRIYVILSPHEIELSA 240
Qy 241 GEKLVNCTARTELNVGLDTWHSPPSKSHKKI VNRDVXPFPGTVAKMLSTLTISVT 300
Db 241 GEKLVNCTARTELNVGLDTWHSPPSKSHKKI VNRDVXPFPGTVAKMLSTLTISVT 300
Qy 301 KSDGGEYTCVASSGMIKRRRTFVRVHTKPFIFGSGMKSILVETVGSQVRIPKYLSTP 360
Db 301 KSDGGEYTCVASSGMIKRRRTFVRVHTKPFIFGSGMKSILVETVGSQVRIPKYLSTP 360

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QY 361 APDICKYRNGRPIESNYTWIIVGDELTIMEVTERDAGNTVILTNPISMKOSHMYSLVYN 420
DB 361 APDICKYRNGRPIESNYTWIIVGDELTIMEVTERDAGNTVILTNPISMKOSHMYSLVYN 420
QY 421 VPPQIGEKALISPMDSYQYGTWQTLTCTVYANPPLHHIOWQLEBACSYRPGQTSFYAC 480
DB 421 VPPQIGEKALISPMDSYQYGTWQTLTCTVYANPPLHHIOWQLEBACSYRPGQTSFYAC 480
QY 481 KEMRVEDPQGNKIEVTKNOYALIEGKKTSTVLIOANVSALYKCAINKARGREYV 540
DB 481 KEMRVEDPQGNKIEVTKNOYALIEGKKTSTVLIOANVSALYKCAINKARGREYV 540
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DB 541 ISFHVIRGEPEITVQPAQPTQESVSLCTADNTEFENLTWYKLSQATSYHGESLTPV 600
QY 601 CKNLDALWKLNGTWFNSNTNDILIVAFONASIQDQGVYCSAQDKKTKRHCILVQQLITL 660
DB 601 CKNLDALWKLNGTWFNSNTNDILIVAFONASIQDQGVYCSAQDKKTKRHCILVQQLITL 660
QY 661 ERMAPIGNLENQTTTGETIEVTCPASGNPTPHITWFKDNETLVESGIVLRQGNRL 720
DB 661 ERMAPIGNLENQTTTGETIEVTCPASGNPTPHITWFKDNETLVESGIVLRQGNRL 720
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DB 721 TIRRVKEDGGLYTOACNVLCGABAEITFIIEGAOEKTNLEVIIIVGTAIVAMFPMILL 780
QY 781 VILVTVKRVANEGELKTGYLSIIVMPDEPLDERCERLPYDASKWEPDRDLKXGKPGR 840
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QY 841 GAFQGVIEADAFGIDKTAICTKVAANKMLKEGATHESEHRLMSELKILHIGHLAVNML 900
DB 841 GAFQGVIEADAFGIDKTAICTKVAANKMLKEGATHESEHRLMSELKILHIGHLAVNML 900
QY 901 GACTKPGPLMYIVFECFKNLSTYLKRGKNEFVYKSGARFROGKDYVGLSLVDLKR 960
DB 901 GACTKPGPLMYIVFECFKNLSTYLKRGKNEFVYKSGARFROGKDYVGLSLVDLKR 960
QY 961 LDSITSSQSSASGFEVEEKSLSDVEESESELYKDFLTLEHLICYSFQVAKMEFLASR 1020
DB 961 LDSITSSQSSASGFEVEEKSLSDVEESESELYKDFLTLEHLICYSFQVAKMEFLASR 1020
QY 1021 KCHIRDLAARNIILSEKRVVXICDFGLARDIYKDDYRKGDARLPLKMAPEITFDPRY 1080
DB 1021 KCHIRDLAARNIILSEKRVVXICDFGLARDIYKDDYRKGDARLPLKMAPEITFDPRY 1080
QY 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYOTMLDC 1140
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DB 1141 WHEDPNQPSFSELYEHLGNLQANAAQDQKDIYLPVSETLISMEDEGLSLPTSPVSCM 1200
QY 1201 EEEVCDPKFYNDNTAGISHLQNSKRKSRPVSVYTFEDIPLEEBEVAVIIPDDSGTDSGM 1260
DB 1201 EEEVCDPKFYNDNTAGISHLQNSKRKSRPVSVYTFEDIPLEEBEVAVIIPDDSGTDSGM 1260
QY 1261 VLASEBELKLTEDRNKLSFGGMPMSKRESVYASGSGNOTSGYSGYSDDTDTTVYSSD 1320
DB 1261 VLASEBELKLTEDRNKLSFGGMPMSKRESVYASGSGNOTSGYSGYSDDTDTTVYSSD 1320
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DB 1321 EAGLLKWDAAVHADSGTTLR 1341

RESULT 7
US-10-639-603-6
; Sequence 6, Application US/10639603

Publication No. US20050003365A1
GENERAL INFORMATION:
APPLICANT: Lemischke, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSSEE: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/639,603
FILING DATE: 11-Aug-2003
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/977,451
FILING DATE: 11-NOV-1995
APPLICATION NUMBER: US UNASSIGNED
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-639-603-6
Query Match 99.3%; Score 6994; DB 5; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 1 MESSALLAVALMFCVETRAASVGLTGDPLHPKSLSTOKDILITLIANTLQITTCRGQRDL 60
DB 1 MESSKGLAVALMFCVETRAASVGLTGDPLHPKSLSTOKDILITLIANTLQITTCRGQRDL 60
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DB 121 RDYSPFIASVSDQGIIVITENRNKTVVLPGRGISINLNVSLCARPEKRFVDDGNRIS 180

Db 121 RDYSPFIASVSDHGIYITENKNKTVIPCRGSIISLANVSLCARYPEKRFVDPGRIS 180
Qy 181 WDSEIGFTLPSYMIISYAGMVFCEAKINDETQSIWYIVVVVGYRIYVILSPHEIELSA 240
Db 181 WDSEIGFTLPSYMIISYAGMVFCEAKINDETQSIWYIVVVVGYRIYVILSPHEIELSA 240
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Qy 481 KEMHVEDFQSGNKLEVTKNQYALIEGKNTVSTVIOANVSALYKCEALINKAGRGERV 540
Db 481 KEMHVEDFQSGNKLEVTKNQYALIEGKNTVSTVIOANVSALYKCEALINKAGRGERV 540
Qy 541 ISFHVIRGEITVPAQPTQESVSLCTADRNTFENLTWYKLSQATSVHMEBSLTPV 600
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Qy 661 ERMAPMITGNLENQTTTGETIETVCPASGNPTPHITWFKCNETLVEDSGVLADGRNL 720
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Db 721 TIRVRKEDGGLYTQACNVLCARAEITLFIIEGAQKTNLEVILVGTAVIANEFMILL 780
Qy 781 VIIVRTYKRNAGEKLTGYLSIWDPPDLPLDERCERLPYDASKWEPFRDLKIKGKPLGR 840
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Qy 1081 TIQSDVMSFGLVLEIFSLGASPYGVKIDEEFCRLKEGRMAAPYTTPEMTQTMIDC 1140
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Qy 1141 WHEDPNORPSFSELVEHLGNLQANAOQGDYIVLPMSETLSMEEDSGLSLPTSPVSCM 1200
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Qy 1201 EEEVCPDKPFYDNTAGISHTLQNSKRSRVSVKTPEDIDLEPEYKVIIPDDSQTDSGM 1260
Db 1201 EEEVCPDKPFYDNTAGISHTLQNSKRSRVSVKTPEDIDLEPEYKVIIPDDSQTDSGM 1260

Qy 1261 VLASEELKTIEDRNKLSPTSGMMPSKRSRESVASEGNSQTSYGTHSDPTTTVYSSD 1320
Db 1261 VLASEELKTIEDRNKLSPTSGMMPSKRSRESVASEGNSQTSYGTHSDPTTTVYSSD 1320
Qy 1321 EAGLLKRVDAVHADSGTTLR 1341
Db 1321 EAGLLKRVDAVHADSGTTLQ 1341

RESULT 8

US-11-030-539-6

Sequence 6, Application US/11030539

Publication No. US20050176102A1

GENERAL INFORMATION:

APPLICANT: Lemischka, Ihor R.

TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL RECEPTORS AND THEIR LIGANDS

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Imclone Systems Incorporated

STREET: 180 Varick Street

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10014

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/11/030,539

FILING DATE: 05-Jan-2005

CLASSIFICATION: <Unknown>

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US/07/977,451

FILING DATE: 19-NOV-1992

APPLICATION NUMBER: US UNASSIGNED

FILING DATE: 12-NOV-1992

APPLICATION NUMBER: US 07/906,397

FILING DATE: 26-JUN-1992

APPLICATION NUMBER: US PCT/US92/05401

FILING DATE: 26-JUN-1992

APPLICATION NUMBER: TW 81102961

FILING DATE: 15-APR-1992

APPLICATION NUMBER: US PCT/US92/02750

FILING DATE: 02-APR-1992

APPLICATION NUMBER: US 07/813,593

FILING DATE: 24-DEC-1991

APPLICATION NUMBER: US 07/793,065

FILING DATE: 15-NOV-1991

APPLICATION NUMBER: US 07/728,913

FILING DATE: 28-JUN-1991

APPLICATION NUMBER: US 07/679,666

FILING DATE: 02-APR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Felt, Irving N.

REGISTRATION NUMBER: 28,601

REFERENCE/DOCKET NUMBER: LEM-3-7P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-645-1405

TELEFAX: 212-645-2054

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 1367 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-11-030-539-6

Query Match

99.3%; Score 6994; DB 6; Length 1367;

Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKALLAVALMPCVETRAASVGLTGDPLHPKLSSTOKOILITLANTLITQITCRGORLD 60
DB 1 MESKALLAVALMPCVETRAASVGLTGDPLHPKLSSTOKOILITLANTLITQITCRGORLD 60

QY 61 WLMFPAQRDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYRVDVIASTVYVYV 120
DB 61 WLMFPAQRDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYRVDVIASTVYVYV 120

QY 121 RDYRPPFIASVSDQGIYITENKNTVYIPCRGISLNLVSLCARYPEKRFVDPGNRIS 180
DB 121 RDYRPPFIASVSDQGIYITENKNTVYIPCRGISLNLVSLCARYPEKRFVDPGNRIS 180

QY 181 WDSEIGFTLPSYMIYAGVPCFCAKINDETOSIMYIVVVGRIYDVILSPHEIELSA 240
DB 181 WDSEIGFTLPSYMIYAGVPCFCAKINDETOSIMYIVVVGRIYDVILSPHEIELSA 240

QY 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIYNRDVCPPGTVAKMFSTLTIESYT 300
DB 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIYNRDVCPPGTVAKMFSTLTIESYT 300

QY 301 KSDGCEYTCVASSGMIKRNRTFVRVHTKPIAFSGSKSLVEATVGSQVRIPVKXLSY 360
DB 301 KSDGCEYTCVASSGMIKRNRTFVRVHTKPIAFSGSKSLVEATVGSQVRIPVKXLSY 360

QY 361 APDIWYNRNGRIENNYTMIVDELTIVETREDAKNTVILTNISMEKOSHMSLVYN 420
DB 361 APDIWYNRNGRIENNYTMIVDELTIVETREDAKNTVILTNISMEKOSHMSLVYN 420

QY 421 VPPOIGEKALISPMOSYOGTMOQLTCTVYANPPLHHIOMVQLEBASYSRGGQSPYAC 480
DB 421 VPPOIGEKALISPMOSYOGTMOQLTCTVYANPPLHHIOMVQLEBASYSRGGQSPYAC 480

QY 481 KEMRWVEDPQGGNKILETKNOYALIEGKNKTVSTLVIQAAVNSALYKCEAIKAGRGGRV 540
DB 481 KEMRWVEDPQGGNKILETKNOYALIEGKNKTVSTLVIQAAVNSALYKCEAIKAGRGGRV 540

QY 541 ISFHYIRPEITVQPAAPTEBESVSLCTADRNTPENITWYKLGSOATSVMGSLTPV 600
DB 541 ISFHYIRPEITVQPAAPTEBESVSLCTADRNTPENITWYKLGSOATSVMGSLTPV 600

QY 601 CKNLDAIKLNGTMSNSTNDILIAFONASLODGDVYCSAQDKKTKRHLVYQQLIL 660
DB 601 CKNLDAIKLNGTMSNSTNDILIAFONASLODGDVYCSAQDKKTKRHLVYQQLIL 660

QY 661 ERMAPMITGNLENQTTTIGETILEVTCPASGNTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTTIGETILEVTCPASGNTPHITWFKONETLVEDSGIVLRDGNRL 720

QY 721 TIRRRKEDGGLYTQACNVIGCARAEFLFIIEGAQOETNLEVIILVGTAVIAMEFWILL 780
DB 721 TIRRRKEDGGLYTQACNVIGCARAEFLFIIEGAQOETNLEVIILVGTAVIAMEFWILL 780

QY 781 VIVLRVIRANBEGELKTGYLSIYMDDELPLDERCERLPYDASKPEPRDRKLGKPIGR 840
DB 781 VIVLRVIRANBEGELKTGYLSIYMDDELPLDERCERLPYDASKPEPRDRKLGKPIGR 840

QY 841 GAFQGVLEADAFGIDKTATCTKTVAVKMLKEGATSEHRLMSELKILHIIGHILVNVLL 900
DB 841 GAFQGVLEADAFGIDKTATCTKTVAVKMLKEGATSEHRLMSELKILHIIGHILVNVLL 900

QY 901 GACTKPGGPLVYIEFCFGNLSYLRGRNEFVYKSGARFRQGXQVYSELSDTLRKR 960
DB 901 GACTKPGGPLVYIEFCFGNLSYLRGRNEFVYKSGARFRQGXQVYSELSDTLRKR 960

QY 961 LDSITSSGSSASGVEEKSLSDVEEESASELVDEPLTLEHLICTYSOVAKGMEFLASR 1020
DB 961 LDSITSSGSSASGVEEKSLSDVEEESASELVDEPLTLEHLICTYSOVAKGMEFLASR 1020

QY 1021 KCIRHDLAARLILSEKVVVXICDFGLARDIYKDDPYRKGDARPLTKMMAPEITFDYV 1080
DB 1021 KCIRHDLAARLILSEKVVVXICDFGLARDIYKDDPYRKGDARPLTKMMAPEITFDYV 1080

DB 1021 KCIRHDLAARLILSEKVVVXICDFGLARDIYKDDPYRKGDARPLTKMMAPEITFDYV 1080

QY 1081 TIQSDVMSGCVLMEI FSLGASPYRGVYKIDEEFCRIKEGRMARAPDTTPMYOTMLDC 1140
DB 1081 TIQSDVMSGCVLMEI FSLGASPYRGVYKIDEEFCRIKEGRMARAPDTTPMYOTMLDC 1140

QY 1141 WHEDNORPSFSELVEHGNLQANAODGKDIYVLPMSSETLSMEEDSGLSLTPSPVSCM 1200
DB 1141 WHEDNORPSFSELVEHGNLQANAODGKDIYVLPMSSETLSMEEDSGLSLTPSPVSCM 1200

QY 1201 BEEVCDPKFHYDNTAGISHTYLONSKRSRPSVSTFEDIPLBEEPVXVYIPDSQTDSCM 1260
DB 1201 BEEVCDPKFHYDNTAGISHTYLONSKRSRPSVSTFEDIPLBEEPVXVYIPDSQTDSCM 1260

QY 1261 VLAASELKTLEDRNLSPSPGGMMSKRESVASRSGNOTSGYOSGYSDDPTTVYSSD 1320
DB 1261 VLAASELKTLEDRNLSPSPGGMMSKRESVASRSGNOTSGYOSGYSDDPTTVYSSD 1320

QY 1321 EAGLKMVDAVHADSGTTLR 1341
DB 1321 EAGLKMVDAVHADSGTTLQ 1341

RESULT 9
US-10-022-939-2
; Sequence 2, Application US/10022939
; Publication No. US20030032160A1
; GENERAL INFORMATION:
; APPLICANT: Kendall, Richard L.
; APPLICANT: Thomas, Kenneth A.
; APPLICANT: Mao, Xianzhi
; APPLICANT: Tebben, Andrew
; TITLE OF INVENTION: HUMAN RECEPTOR TYROSINE KINASE, KDR
; FILE REFERENCE: 19963YDB
; CURRENT APPLICATION NUMBER: US/10/022,939
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 09/483,539
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 09/098,707
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/050,962
; PRIOR FILING DATE: 1997-06-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Human
US-10-022-939-2

Query Match 87.0%; Score 6127.5; DB 4; Length 1356;
Best Local Similarity 85.8%; Pred. No. 0;
Matches 1165; Conservative 71; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMPCVETRAASVGLTGDPLHPKLSSTOKOILITLANTLITQITCRGORLD 60
DB 1 MESKALLAVALMPCVETRAASVGLTGDPLHPKLSSTOKOILITLANTLITQITCRGORLD 60

QY 61 WLMFPAQRDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYRVDVIASTVYVYV 120
DB 61 WLMFPAQRDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYRVDVIASTVYVYV 120

QY 121 RDYRPPFIASVSDQGIYITENKNTVYIPCRGISLNLVSLCARYPEKRFVDPGNRIS 180
DB 121 RDYRPPFIASVSDQGIYITENKNTVYIPCRGISLNLVSLCARYPEKRFVDPGNRIS 180

QY 181 WDSEIGFTLPSYMIYAGVPCFCAKINDETOSIMYIVVVGRIYDVILSPHEIELSA 240
DB 181 WDSEIGFTLPSYMIYAGVPCFCAKINDETOSIMYIVVVGRIYDVILSPHEIELSA 240

QY 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIYNRDVCPPGTVAKMFSTLTIESYT 300
DB 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIYNRDVCPPGTVAKMFSTLTIESYT 300

QY 301 KSDGCEYTCVASSGMIKRNRTFVRVHTKPIAFSGSKSLVEATVGSQVRIPVKXLSY 360
DB 301 KSDGCEYTCVASSGMIKRNRTFVRVHTKPIAFSGSKSLVEATVGSQVRIPVKXLSY 360

QY 361 APDIWYNRNGRIENNYTMIVDELTIVETREDAKNTVILTNISMEKOSHMSLVYN 420
DB 361 APDIWYNRNGRIENNYTMIVDELTIVETREDAKNTVILTNISMEKOSHMSLVYN 420

QY 421 VPPOIGEKALISPMOSYOGTMOQLTCTVYANPPLHHIOMVQLEBASYSRGGQSPYAC 480
DB 421 VPPOIGEKALISPMOSYOGTMOQLTCTVYANPPLHHIOMVQLEBASYSRGGQSPYAC 480

QY 481 KEMRWVEDPQGGNKILETKNOYALIEGKNKTVSTLVIQAAVNSALYKCEAIKAGRGGRV 540
DB 481 KEMRWVEDPQGGNKILETKNOYALIEGKNKTVSTLVIQAAVNSALYKCEAIKAGRGGRV 540

QY 541 ISFHYIRPEITVQPAAPTEBESVSLCTADRNTPENITWYKLGSOATSVMGSLTPV 600
DB 541 ISFHYIRPEITVQPAAPTEBESVSLCTADRNTPENITWYKLGSOATSVMGSLTPV 600

QY 601 CKNLDAIKLNGTMSNSTNDILIAFONASLODGDVYCSAQDKKTKRHLVYQQLIL 660
DB 601 CKNLDAIKLNGTMSNSTNDILIAFONASLODGDVYCSAQDKKTKRHLVYQQLIL 660

QY 661 ERMAPMITGNLENQTTTIGETILEVTCPASGNTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTTIGETILEVTCPASGNTPHITWFKONETLVEDSGIVLRDGNRL 720

QY 721 TIRRRKEDGGLYTQACNVIGCARAEFLFIIEGAQOETNLEVIILVGTAVIAMEFWILL 780
DB 721 TIRRRKEDGGLYTQACNVIGCARAEFLFIIEGAQOETNLEVIILVGTAVIAMEFWILL 780

QY 781 VIVLRVIRANBEGELKTGYLSIYMDDELPLDERCERLPYDASKPEPRDRKLGKPIGR 840
DB 781 VIVLRVIRANBEGELKTGYLSIYMDDELPLDERCERLPYDASKPEPRDRKLGKPIGR 840

QY 841 GAFQGVLEADAFGIDKTATCTKTVAVKMLKEGATSEHRLMSELKILHIIGHILVNVLL 900
DB 841 GAFQGVLEADAFGIDKTATCTKTVAVKMLKEGATSEHRLMSELKILHIIGHILVNVLL 900

QY 901 GACTKPGGPLVYIEFCFGNLSYLRGRNEFVYKSGARFRQGXQVYSELSDTLRKR 960
DB 901 GACTKPGGPLVYIEFCFGNLSYLRGRNEFVYKSGARFRQGXQVYSELSDTLRKR 960

QY 961 LDSITSSGSSASGVEEKSLSDVEEESASELVDEPLTLEHLICTYSOVAKGMEFLASR 1020
DB 961 LDSITSSGSSASGVEEKSLSDVEEESASELVDEPLTLEHLICTYSOVAKGMEFLASR 1020

QY 1021 KCIRHDLAARLILSEKVVVXICDFGLARDIYKDDPYRKGDARPLTKMMAPEITFDYV 1080
DB 1021 KCIRHDLAARLILSEKVVVXICDFGLARDIYKDDPYRKGDARPLTKMMAPEITFDYV 1080

QY 301 KSDGERTVASSGSMIKRNTFVRVATKTPFIAGSGMKSI VEATVGSQVRI PVKYLSTP 360
D 299 RSDGLYTCASSSGMTKKNSTFVRVHKPFVAFSGSMESLVEATVGRVRI PAKYLGYP 358
QY 361 APDKWYNGRPISNTYMTIVGDELTIVETERRDAGNTVLTLPISMEKQSHVSLVNN 420
D 359 PPEIKMYKNGIPLESNHTIKAGHVLTIVMESEBDTGNTVLTLPISMEKQSHVSLVNN 418
QY 421 VPPQIGEKALISPMDSYQYGTQTLCTVYANPPLHNIQWYMOLEBACSYPGQ----TS 476
D 419 VPPQIGEKSLISPVDSYQYGTQTLCTVYAI PRPHIHIMWYMOLEBECANBPQAVSVTN 478
QY 477 PYACKERHVEDPQGGNKIEVTQYQYALIEGKNTVSTLVIOANVSAALYKCEALNKAQR 536
D 479 PYPCBEEMWSVEDPQGGNKIEVNKQOFALIEGKNTVSTLVIOANVSAALYKCEAVNKAQR 538
QY 537 GERVISFHVIRGPEITVQPAOPTBOESVSLCTADRTFENLTWYKLGSAQTSVHMGES 596
D 539 GERVISFHVIRGPEITVQPAOPTBOESVSLCTADRTFENLTWYKLGSAQTSVHMGES 598
QY 597 LTPYCNKLDALMKLNGTWFNSNTDILIVAFONASLODQGDYVCSADPKTKGKCLVKQ 656
D 599 PTPYCNKLDLTKLNTATWFSNSTNDILIMELKXNASLODQGDYVCLAQDRKTKGKCLVKQ 658
QY 657 LIIERAPMTTGNLENOTTTIGETIETCPASGNPTHTITWFKDNETLVDSGIVLRDG 716
D 659 LTVIERVAPITITGNLENOTTIGETIETCPASGNPTHTITWFKDNETLVDSGIVLRDG 718
QY 717 NRNLITRRVRKEDGLYTCQACNVLCARAEFTLFIIEAOEKTLNLEVIILVGTAVIMAF 776
D 719 NRNLITRRVRKEDGLYTCQACNVLCARAEFTLFIIEAOEKTLNLEVIILVGTAVIMAF 778
QY 777 WLLVILVILRTVKRANEGELKTGYLSIWDPELPLDERCERLPYDASKMEPRDRRLKLGK 836
D 779 WLLVILVILRTVKRANEGELKTGYLSIWDPELPLDERCERLPYDASKMEPRDRRLKLGK 838
QY 837 PLGGAAGQOYIEADAFGIDKTATCTTAVVAKMLKGAHSEHRAIMSELKILIHGHILNV 896
D 839 PLGGAAGQOYIEADAFGIDKTATCTTAVVAKMLKGAHSEHRAIMSELKILIHGHILNV 898
QY 897 VNLGACTKPGGPMVIVPECFKGNLSTYLRGKNEFPVYKSGARFPOGKDYVGLSD 956
D 899 VNLGACTKPGGPMVIVPECFKGNLSTYLRGKNEFPVYKSGARFPOGKDYVGLSD 958
QY 957 LKRLDISITSSQSSASSGFVEKSLSDVEEESAESELYKOFLEHLICYSFOYAKGMF 1016
D 959 LKRLDISITSSQSSASSGFVEKSLSDVEEESAESELYKOFLEHLICYSFOYAKGMF 1018
QY 1017 LASKKCTHRDLAANNILISEKNVYKICDFGLARDIYKODPYRKGDARLPKMAPETIF 1076
D 1019 LASKKCTHRDLAANNILISEKNVYKICDFGLARDIYKODPYRKGDARLPKMAPETIF 1078
QY 1077 DRYVITISDVMVSGVILMEIFSLGASPYGVKIDBEFCRRLKEGTRARAPYTTPEMYOT 1136
D 1079 DRYVITISDVMVSGVILMEIFSLGASPYGVKIDBEFCRRLKEGTRARAPYTTPEMYOT 1138
QY 1137 MLDGMHEDPNORPSESELVEHIGNLQANAOQDGKDYVILPMSSETLSNEEDSGSLPTSP 1196
D 1139 MLDGMHEDPNORPSESELVEHIGNLQANAOQDGKDYVILPMSSETLSNEEDSGSLPTSP 1198
QY 1197 VSCHEEBEVCDPKPHYDNTAGISHLQNSKRSRPSVYKTFEDIPLBEPYKVIIPDSSQT 1256
D 1199 VSCHEEBEVCDPKPHYDNTAGISHLQNSKRSRPSVYKTFEDIPLBEPYKVIIPDSSQT 1258
QY 1257 DSGMVLASEBELKTLNEDNKLSPSGMMPSKRSRESVASSEGNQTSYGOSGHSDDTDTTV 1316
D 1259 DSGMVLASEBELKTLNEDNKLSPSGMMPSKRSRESVASSEGNQTSYGOSGHSDDTDTTV 1318
QY 1317 YSSDEAGILKKNVDAVAHA-----DSGTTLRSPV 1345
D 1319 YSSDEAGILKKNVDAVAHA-----DSGTTLRSPV 1356

RESULT 10
US-10-100-405A-2
Sequence 2, Application US/10100405A
Publication No. US20030055239A1
GENERAL INFORMATION:
APPLICANT: Kendall, Richard L.
APPLICANT: Thomas, Kenneth A.
APPLICANT: Mao, Xianzh
APPLICANT: Tebben, Andrew
TITLE OF INVENTION: HUMAN RECEPTOR TYROSINE KINASE, KDR
FILE REFERENCE: 19963YDC
CURRENT APPLICATION NUMBER: US/10/100,405A
CURRENT FILING DATE: 2002-08-13
PRIOR APPLICATION NUMBER: 10/022,939
PRIOR FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: 09/483,539
PRIOR FILING DATE: 2000-01-14
PRIOR APPLICATION NUMBER: 09/098,707
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/050,962
PRIOR FILING DATE: 1997-06-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1356
TYPE: PRT
ORGANISM: Human
US-10-100-405A-2

Query Match 87.0%; Score 6127.5; DB 4; Length 1356;
Best Local Similarity 85.8%; Pred. No. 0;
Matches 1165; Conservative 71; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMFCVETRAASVGLTGPFLAPPKISTQKDLITLANTTLQITCGORDLD 60
D 1 MESKALLAVALMFCVETRAASVGLTGPFLAPPKISTQKDLITLANTTLQITCGORDLD 60
QY 61 WLPNMAQRDEERVLVTECGGDSIFCKTLTIRVVGNDTGAAYKCSYRDVIASTVYVV 120
D 61 WLPNMAQRDEERVLVTECGGDSIFCKTLTIRVVGNDTGAAYKCSYRDVIASTVYVV 118
QY 121 RDTSPFIASVSOHGIVITENKNTVITPCGKISNLNLSVLCARPEKGFVDDGRIS 180
D 119 QDYSRPFIASVSOHGIVITENKNTVITPCGKISNLNLSVLCARPEKGFVDDGRIS 178
QY 181 MDSEIGFTLPSYMSISYAGWFCCEKINDETQOSIMYVWVVGRIYDVIISPHIELSA 240
D 179 MDSEIGFTLPSYMSISYAGWFCCEKINDETQOSIMYVWVVGRIYDVIISPHIELSA 238
QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIIVNRDVKRFGQVAKMFLSTLTIESVT 300
D 239 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIIVNRDVKRFGQVAKMFLSTLTIESVT 298
QY 301 KSDGERTVASSGSMIKRNTFVRVATKTPFIAGSGMKSI VEATVGSQVRI PVKYLSTP 360
D 299 RSDGLYTCASSSGMTKKNSTFVRVHKPFVAFSGSMESLVEATVGRVRI PAKYLGYP 358
QY 421 VPPQIGEKALISPMDSYQYGTQTLCTVYANPPLHNIQWYMOLEBACSYPGQ----TS 476
D 419 VPPQIGEKSLISPVDSYQYGTQTLCTVYAI PRPHIHIMWYMOLEBECANBPQAVSVTN 478
QY 477 PYACKERHVEDPQGGNKIEVTQYQYALIEGKNTVSTLVIOANVSAALYKCEALNKAQR 536
D 479 PYPCBEEMWSVEDPQGGNKIEVNKQOFALIEGKNTVSTLVIOANVSAALYKCEAVNKAQR 538
QY 537 GERVISFHVIRGPEITVQPAOPTBOESVSLCTADRTFENLTWYKLGSAQTSVHMGES 596
D 539 GERVISFHVIRGPEITVQPAOPTBOESVSLCTADRTFENLTWYKLGSAQTSVHMGES 598

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QY 597 LTPVCKNDALWKLNGTMSNSTNDILIVAFONASLQDQGVYCSAODKTKTKRHCLVQK 656
Db 599 PTPVCKNDLTKLNAITMFSNSTNDILIMELKNASLQDQGVYCLAQDKTKTKRHCLVQK 658
QY 657 LILIERMAMPMITGNLENQTTTIGETIEVTCPASGNPTPHITWPKONETLVEDSGIYLRDG 716
Db 659 LTVLRVAPITIGNLENQTTISGESIEVSCASGNPPQIMWPKONETLVEDSGIYLRDG 718
QY 717 NNNLTIIRVRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAVIAMF 776
Db 719 NNNLTIIRVRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAVIAMF 778
QY 777 WLLVIVLRTVVRANEGELKTGYLSIWMDBELPLDERCERLPYDASKMEPRDRLLKQK 836
Db 779 WLLVIVLRTVVRANEGELKTGYLSIWMDBELPLDERCERLPYDASKMEPRDRLLKQK 838
QY 837 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSSELKILIHIGHILNV 896
Db 839 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSSELKILIHIGHILNV 898
QY 897 VNLGACTKPGGPLMVIYVEFCFGNLSTYLKRGKNEFVYKSKGARFRQGDYVGAISVD 956
Db 899 VNLGACTKPGGPLMVIYVEFCFGNLSTYLKRGKNEFVYKSKGARFRQGDYVGAISVD 958
QY 957 LKRRLDSTITSSQSSASSGFVEEKSLSDVEESEASEELYKDLTLEHLICYSFOVAKGMEF 1016
Db 959 LKRRLDSTITSSQSSASSGFVEEKSLSDVEESEASEELYKDLTLEHLICYSFOVAKGMEF 1018
QY 1017 LASRCKIHRDLAARNILSEKNVVKICDFGLARDIYKDPYVRKGDARLPLKMAPEITF 1076
Db 1019 LASRCKIHRDLAARNILSEKNVVKICDFGLARDIYKDPYVRKGDARLPLKMAPEITF 1078
QY 1077 DRVYITIGSDWVSFGVILMEIFSLGASPYRGVKIDEEFCRLKEGTRMARPDYTTBMTOT 1136
Db 1079 DRVYITIGSDWVSFGVILMEIFSLGASPYRGVKIDEEFCRLKEGTRMARPDYTTBMTOT 1138
QY 1137 MLDCHHEPNORPSFSELEVEHGNLLOANAODGKDYILPMSEITLSMEEDSGLSLPTSP 1196
Db 1139 MLDCHHEPNORPSFSELEVEHGNLLOANAODGKDYILPMSEITLSMEEDSGLSLPTSP 1198
QY 1197 VSCMEEEVCDFKHYDNTAGISHYLONSKRKSRPVSVKTFPEDIPLBEPEVAVIPDDSGT 1256
Db 1199 VSCMEEEVCDFKHYDNTAGISHYLONSKRKSRPVSVKTFPEDIPLBEPEVAVIPDDSGT 1258
QY 1257 DSGMVLASEBELKTLIEDRNLSPSGGMPFSKRSRESVASEGSGTSGYOSGHSDDTTTV 1316
Db 1259 DSGMVLASEBELKTLIEDRNLSPSGGMPFSKRSRESVASEGSGTSGYOSGHSDDTTTV 1318
QY 1317 YSSDEAGLLKMWDAVHA-----DSGTTLRSPV 1345
Db 1319 YSSDEAGLLKMWDAVHA-----DSGTTLRSPV 1346
RESULT 11
US-10-327-414-6
; Sequence 6, Application US/10327414
; Publication No. US20030158083A1
; GENERAL INFORMATION:
; APPLICANT: The Procter & Gamble Company
; APPLICANT: Peters, Kevin G
; TITLE OF INVENTION: A Method of Effecting angiogenesis by Modulating the Function of
; TITLE OF INVENTION: Endothelial Phosphatase
; FILE REFERENCE: 8864M
; CURRENT APPLICATION NUMBER: US/10/327,414
; CURRENT FILING DATE: 2002-12-20
; PRIOR APPLICATION NUMBER: US 60/355,125
; PRIOR FILING DATE: 2002-02-08
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 6
; LENGTH: 1356
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-10-327-414-6
Query Match 87.0%; Score 6127.5; DB 4; Length 1356;
Best Local Similarity 85.8%; Pred. No. 0;
Matches 1165; Conservative 71; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESSKLVLAALMFCVETBAASVGLGDFLHPKSTQDIIILANTLLQICRGQRDID 60
Db 1 MESSKLVLAALMFCVETBAASVGLGDFLHPKSTQDIIILANTLLQICRGQRDID 60
QY 61 WLMFNAQDSEERVAIVTECGGSDSIFCKTLTIPIRVGNDTGAYKCSYRDVDIASVYVYV 120
Db 61 WLMFNAQDSEERVAIVTECGGSDSIFCKTLTIPIRVGNDTGAYKCSYRDVDIASVYVYV 118
QY 121 RDYRSPFLASVSDQHGIVYITENKKTAVIIPCKGSI SNLANS LCARYPKRFVPGNRIS 180
Db 119 QDYRSPFLASVSDQHGIVYITENKKTAVIIPCKGSI SNLANS LCARYPKRFVPGNRIS 178
QY 181 WDSLGFTLPSYMIISYAGMVFCEAKINDETOSIMYIVVVGYRITYDILSPHEIELSA 240
Db 179 WDSKGFTLPSYMIISYAGMVFCEAKINDETOSIMYIVVVGYRITYDILSPHIGIELSV 238
QY 241 GEKVLINCTARTELNVGDLFTWHSPPSKSHHKKIVNRDVKPPTGVAKMFSTLTIESVT 300
Db 239 GEKVLINCTARTELNVGDLFTWHSPPSKSHHKKIVNRDVKPPTGVAKMFSTLTIDGVT 298
QY 301 KSDQGEYTCVASSGMIKRNRTFVVRHTKPTPIAFSGSKSIVEATVGSQVRIIPVKYLSY 360
Db 299 RSDQGLYTCVASSGMIKRNRTFVVRHTKPTPIAFSGSKSIVEATVGSQVRIIPVKYLSY 358
QY 361 APDIKVMNGAPRIENMIMYIGDELTIMEVTERDAGNTVILTNGISMEKSHMVS LVN 420
Db 359 PEIRKMYNGAPRIENMIMYIGDELTIMEVTERDAGNTVILTNGISMEKSHMVS LVN 418
QY 421 VPPQIGERALSIPMSYOGTWTQTLCTVYANPPLMHIOMYTOLEEACSYRPGQ-----TS 476
Db 419 VPPQIGERALSIPMSYOGTWTQTLCTVYANPPLMHIOMYTOLEEACSYRPGQ-----TS 478
QY 477 PYACEKMHVEDPQGNKIEVTKNOYALIEGKNTVSTLVIOANVASLYKCEALINKAGR 536
Db 479 PYACEKMHVEDPQGNKIEVTKNOYALIEGKNTVSTLVIOANVASLYKCEALINKAGR 538
QY 537 GERVISFHVITGPEITVPAQPTPEQESVSLCTADRRTFENLTWYKLGPPPLPHVGBL 598
Db 539 GERVISFHVITGPEITVPAQPTPEQESVSLCTADRRTFENLTWYKLGPPPLPHVGBL 596
QY 597 LTPVCKNDALWKLNGTMSNSTNDILIVAFONASLQDQGVYCSAODKTKTKRHCLVQK 656
Db 599 PTPVCKNDLTKLNAITMFSNSTNDILIMELKNASLQDQGVYCLAQDKTKTKRHCLVQK 658
QY 657 LILIERMAMPMITGNLENQTTTIGETIEVTCPASGNPTPHITWPKONETLVEDSGIYLRDG 716
Db 659 LTVLRVAPITIGNLENQTTISGESIEVSCASGNPPQIMWPKONETLVEDSGIYLRDG 718
QY 717 NNNLTIIRVRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAVIAMF 776
Db 719 NNNLTIIRVRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAVIAMF 778
QY 777 WLLVIVLRTVVRANEGELKTGYLSIWMDBELPLDERCERLPYDASKMEPRDRLLKQK 836
Db 779 WLLVIVLRTVVRANEGELKTGYLSIWMDBELPLDERCERLPYDASKMEPRDRLLKQK 838
QY 837 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSSELKILIHIGHILNV 896
Db 839 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSSELKILIHIGHILNV 898
QY 897 VNLGACTKPGGPLMVIYVEFCFGNLSTYLKRGKNEFVYKSKGARFRQGDYVGAISVD 956
Db 899 VNLGACTKPGGPLMVIYVEFCFGNLSTYLKRGKNEFVYKSKGARFRQGDYVGAISVD 958
QY 957 LKRRLDSTITSSQSSASSGFVEEKSLSDVEESEASEELYKDLTLEHLICYSFOVAKGMEF 1016
Db 959 LKRRLDSTITSSQSSASSGFVEEKSLSDVEESEASEELYKDLTLEHLICYSFOVAKGMEF 1018
```

Db 959 LKRLDITSSQSSASSGFVEEKSLSIDVEEBEAPEDLYKDLTLEHLI CYSFQVAKGMEF 1018
Qy 1017 LASRKCIRHDLAARNIILSEKNVVKICDFGLARDIYKDPDYRKGDARLPLKMAPEITF 1076
Db 1019 LASRKCIRHDLAARNIILSEKNVVKICDFGLARDIYKDPDYRKGDARLPLKMAPEITF 1078
Qy 1077 DRVYTIQSDVWSFGVLLMEIFSLGASPYPGVKIDEEFCRRLKEGTRMARADYTPPEMYQT 1136
Db 1079 DRVYTIQSDVWSFGVLLMEIFSLGASPYPGVKIDEEFCRRLKEGTRMARADYTPPEMYQT 1138
Qy 1137 MLDCEHEDPNORPSSEIYVEHIGNLLQANAQODGKDYIVLPMSEITLSMEEDSGSLPTSP 1196
Db 1139 MLDCEHEDPNORPSSEIYVEHIGNLLQANAQODGKDYIVLPMSEITLSMEEDSGSLPTSP 1198
Qy 1197 VSCHEEEVCDPKPHFYDNTAGISHYLONSKRKRSPVSKTFPEDIPLAEPYKVIIPDDSQT 1256
Db 1199 VSCHEEEVCDPKPHFYDNTAGISHYLONSKRKRSPVSKTFPEDIPLAEPYKVIIPDDSQT 1258
Qy 1257 DSGWVLASEELKTLEDNRKLSPSFGGMPSPKRESVASSEGSNOTSGYQSGYHSDDTDTTV 1316
Db 1259 DSGWVLASEELKTLEDNRKLSPSFGGMPSPKRESVASSEGSNOTSGYQSGYHSDDTDTTV 1318
Qy 1317 YSDEAGLLKMWDAVAH-----DSGTTLRSPV 1345
Db 1319 YSDEAGLLKMWDAVAH-----DSGTTLRSPV 1345
Qy 1319 YSDEAGLLKMWDAVAH-----DSGTTLRSPV 1345
Db 1319 YSDEAGLLKMWDAVAH-----DSGTTLRSPV 1345

RESULT 12

US-10-165-193A-11
Sequence 11, Application US/10165193A
Publication No. US20030207391A1
GENERAL INFORMATION:
APPLICANT: HELEN PAPA
TITLE OF INVENTION: BINDING PROTEIN
FILE REFERENCE: 1396-1-00
CURRENT FILING DATE: 2003-01-13
PRIOR APPLICATION NUMBER: PCT/GB00/04693
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: GB9928950.6
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Seqw199, version 1.02
SEQ ID NO 11
LENGTH: 1356
TYPE: PRT
ORGANISM: Homo sapiens
US-10-165-193A-11

Query Match 87.0%; Score 6127.5; DB 4; Length 1356;
Best Local Similarity 85.8%; Pred. No. 0;
Matches 1165; Conservative 71; Mismatches 107; Indels 15; Gaps 3;

Qy 1 MESKALLAVAMFCVETAAASVGLTGDPLHPKLSSTOKDITLITANTLLOITTCGQRDL 60
Db 1 MESKALLAVAMFCVETAAASVGLTGDPLHPKLSSTOKDITLITANTLLOITTCGQRDL 60
Qy 61 WLMPPAQRDSEERVLVTECGGDSIFCKTLTIPRVAGDTGAYKCSYRDVIASTVYVYV 120
Db 61 WLMPPAQRDSEERVLVTECGGDSIFCKTLTIPRVAGDTGAYKCSYRDVIASTVYVYV 120
Qy 61 WLMPPAQRDSEERVLVTECGGDSIFCKTLTIPRVAGDTGAYKCSYRDVIASTVYVYV 118
Db 61 WLMPPAQRDSEERVLVTECGGDSIFCKTLTIPRVAGDTGAYKCSYRDVIASTVYVYV 118
Qy 121 RDRSPFIASVSDQHGIVYITENKNTVYIPCRGISIMLVNLSLCARYPEKAFVDDGNIS 180
Db 121 RDRSPFIASVSDQHGIVYITENKNTVYIPCRGISIMLVNLSLCARYPEKAFVDDGNIS 180
Qy 119 ODYRSPFIASVSDQHGIVYITENKNTVYIPCRGISIMLVNLSLCARYPEKAFVDDGNIS 178
Db 119 ODYRSPFIASVSDQHGIVYITENKNTVYIPCRGISIMLVNLSLCARYPEKAFVDDGNIS 178
Qy 181 WDSERGFLLPSYMSIYAQVCEAKINDETYSIMYIVVYGYRYDYVILSPHEIEISA 240
Db 181 WDSERGFLLPSYMSIYAQVCEAKINDETYSIMYIVVYGYRYDYVILSPHEIEISA 240
Qy 179 WDSKGFIPISYMSIYAQVCEAKINDETYSIMYIVVYGYRYDYVILSPHEIEISV 238
Db 179 WDSKGFIPISYMSIYAQVCEAKINDETYSIMYIVVYGYRYDYVILSPHEIEISV 238
Qy 241 GEKVLNCTARTELNGLDFTWSPSPSKSHKKIYNRDPKPPGTVAKMFSLTITIEVY 300
Db 241 GEKVLNCTARTELNGLDFTWSPSPSKSHKKIYNRDPKPPGTVAKMFSLTITIEVY 300
Qy 239 GEKVLNCTARTELNGLDFTWSPSPSKSHKKIYNRDPKPPGTVAKMFSLTITIEVY 298
Db 239 GEKVLNCTARTELNGLDFTWSPSPSKSHKKIYNRDPKPPGTVAKMFSLTITIEVY 298

Qy 301 KSDGEYTCVASSGMRIRKRNTPVRVHTKPEPIAFSGMKSILEATVGSQVRI PVKYLSYP 360
Db 299 RSDQGLYTCVASSGMRIRKRNTPVRVHTKPEPIAFSGMKSILEATVGSQVRI PVKYLSYP 358
Qy 361 APLIKWRNGRPISSNTMIVGDELTIMEYTERAGNVTVLTLPISNEKSHVSLVYN 420
Db 359 PPEIKWKNGRPISSNTMIVGDELTIMEYTERAGNVTVLTLPISNEKSHVSLVYN 418
Qy 421 VPPQIGKALISPMDSYQYGMQTLCTVYANPLPHILOWYQLEACSYRPGQ-----TS 476
Db 419 VPPQIGKALISPMDSYQYGMQTLCTVYANPLPHILOWYQLEACSYRPGQ-----TS 478
Qy 477 PYACEWRHVEDPQGNKIEVYXQVAILBGNKTVSTLVIQAANVSALYKCEALINKGR 536
Db 479 PYACEWRHVEDPQGNKIEVYXQVAILBGNKTVSTLVIQAANVSALYKCEALINKGR 538
Qy 537 GERIYSHVIRGEITVQPAAPTEQSSVSLCTADNTEFENLWYKLGSAQTSVHMEBS 596
Db 539 GERIYSHVIRGEITVQPAAPTEQSSVSLCTADNTEFENLWYKLGSAQTSVHMEBS 598
Qy 597 LTPYCKNLDALMKTNGTMSNSTNDILYAFONASLQDQDYVCSAODKTKKSHCLYKQ 656
Db 599 LTPYCKNLDALMKTNGTMSNSTNDILYAFONASLQDQDYVCSAODKTKKSHCLYKQ 658
Qy 657 LILIERMAPMITGNLENQTTTIGTIEVTCPSAGNPPIHTWPKONETTVEDSGIVLRDG 716
Db 659 LILIERMAPMITGNLENQTTTIGTIEVTCPSAGNPPIHTWPKONETTVEDSGIVLRDG 718
Qy 717 NNRNLTIRVRKEDGLYTCQACNVLGCARAFETLFIIGAGOKTLEVLITVGTAVIANEF 776
Db 719 NNRNLTIRVRKEDGLYTCQACNVLGCARAFETLFIIGAGOKTLEVLITVGTAVIANEF 778
Qy 777 WLLVIVLRVTKRANBEGELKTGYLSIVMDPELPLDERCERLPYDASKMEFPRLRLKLG 836
Db 779 WLLVIVLRVTKRANBEGELKTGYLSIVMDPELPLDERCERLPYDASKMEFPRLRLKLG 838
Qy 837 PLRGAFQGVLEADAFGIDKATCRVAVKMLKEGATSEHRALMSELKILIHGHILNV 896
Db 839 PLRGAFQGVLEADAFGIDKATCRVAVKMLKEGATSEHRALMSELKILIHGHILNV 898
Qy 897 VNLGACPKRGGPLMVIVPECKPGLNSTYLGRKNEFVPYKSKARFQGDYVYV 956
Db 899 VNLGACPKRGGPLMVIVPECKPGLNSTYLGRKNEFVPYKSKARFQGDYVYV 958
Qy 957 LKRLDITSSQSSASSGFVEEKSLSIDVEEBEASELYKDLTLEHLI CYSFQVAKGMEF 1016
Db 959 LKRLDITSSQSSASSGFVEEKSLSIDVEEBEASELYKDLTLEHLI CYSFQVAKGMEF 1018
Qy 1017 LASRKCIRHDLAARNIILSEKNVVKICDFGLARDIYKDPDYRKGDARLPLKMAPEITF 1076
Db 1019 LASRKCIRHDLAARNIILSEKNVVKICDFGLARDIYKDPDYRKGDARLPLKMAPEITF 1078
Qy 1077 DRVYTIQSDVWSFGVLLMEIFSLGASPYPGVKIDEEFCRRLKEGTRMARADYTPPEMYQT 1136
Db 1079 DRVYTIQSDVWSFGVLLMEIFSLGASPYPGVKIDEEFCRRLKEGTRMARADYTPPEMYQT 1138
Qy 1137 MLDCEHEDPNORPSSEIYVEHIGNLLQANAQODGKDYIVLPMSEITLSMEEDSGSLPTSP 1196
Db 1139 MLDCEHEDPNORPSSEIYVEHIGNLLQANAQODGKDYIVLPMSEITLSMEEDSGSLPTSP 1198
Qy 1197 VSCHEEEVCDPKPHFYDNTAGISHYLONSKRKRSPVSKTFPEDIPLAEPYKVIIPDDSQT 1256
Db 1199 VSCHEEEVCDPKPHFYDNTAGISHYLONSKRKRSPVSKTFPEDIPLAEPYKVIIPDDSQT 1258
Qy 1257 DSGWVLASEELKTLEDNRKLSPSFGGMPSPKRESVASSEGSNOTSGYQSGYHSDDTDTTV 1316
Db 1259 DSGWVLASEELKTLEDNRKLSPSFGGMPSPKRESVASSEGSNOTSGYQSGYHSDDTDTTV 1318
Qy 1317 YSDEAGLLKMWDAVAH-----DSGTTLRSPV 1345
Db 1319 YSDEAGLLKMWDAVAH-----DSGTTLRSPV 1345

```
RESULT 13
US-10-090-183-2
; Sequence 2, Application US/10090183
; Publication No. US20030185802A1
GENERAL INFORMATION:
; APPLICANT: The Scripps Research Institute
; APPLICANT: Ralph A. Reisfeld
; APPLICANT: Andrew G. Nlethammer
; APPLICANT: Rong Xiang
; TITLE OF INVENTION: DNA VACCINE AGAINST PROLIFERATING
; TITLE OF INVENTION: ENDOTHELIAL CELLS AND METHODS OF USE THEREOF
; FILE REFERENCE: TSRI-829.0
; CURRENT APPLICATION NUMBER: US/10/090,183
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: human
US-10-090-183-2

Query Match      86.9%; Score 6124.5; DB 4; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMFCVETRAASVGLTGDPLHPPKLTSTOKDILITLANTTLQITCRGORDLD 60
DB 1 MOSKULLAVALMFCVETRAASVGLTGDPLHPPKLTSTOKDILITLANTTLQITCRGORDLD 60
QY 61 WMPNQRDSEERVLTECGGDSIFCKTLTI PRVNDTGA YKGSYRVDVIASTYVVV 120
DB 61 WMPNQRDSEERVLTECGGDSIFCKTLTI PRVNDTGA YKGSYRVDVIASTYVVV 120
QY 61 WMPNQRDSEERVLTECGGDSIFCKTLTI PRVNDTGA YKGSYRVDVIASTYVVV 120
DB 61 WMPNQRDSEERVLTECGGDSIFCKTLTI PRVNDTGA YKGSYRVDVIASTYVVV 120
QY 121 RDRSPFLASVSDQDGIYVITENKKTIVIPCRGSI SNLVSLCARYPEKRPVPOGRIS 180
DB 121 RDRSPFLASVSDQDGIYVITENKKTIVIPCRGSI SNLVSLCARYPEKRPVPOGRIS 180
QY 119 QDRSPFLASVSDQDGIYVITENKKTIVIPCLGSI SNLVSLCARYPEKRPVPOGRIS 178
DB 119 QDRSPFLASVSDQDGIYVITENKKTIVIPCLGSI SNLVSLCARYPEKRPVPOGRIS 178
QY 181 WDSSEGTLPSPYMI SVAGWVCEAKINDETYSIMYIVVVGRIYDVLSPPHEIELSA 240
DB 181 WDSSEGTLPSPYMI SVAGWVCEAKINDETYSIMYIVVVGRIYDVLSPPHEIELSA 240
QY 179 WDSKGFITPSIMISYAGWVCEAKINDETYSIMYIVVVGRIYDVLSPPHEIELSA 238
DB 179 WDSKGFITPSIMISYAGWVCEAKINDETYSIMYIVVVGRIYDVLSPPHEIELSA 238
QY 241 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYVNRDVKPPGTVAKNFLSTLTIESVT 300
DB 241 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYVNRDVKPPGTVAKNFLSTLTIESVT 300
QY 239 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYVNRDVKPPGTVAKNFLSTLTIESVT 298
DB 239 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYVNRDVKPPGTVAKNFLSTLTIESVT 298
QY 301 KSDQSEYTCVASSSGMIRKRTFVAVHTPPIAFSGSKSLVETVGSQVRI PVKYLSTP 360
DB 301 KSDQSEYTCVASSSGMIRKRTFVAVHTPPIAFSGSKSLVETVGSQVRI PVKYLSTP 360
QY 299 RSDQGLYTCASSSGMIRKRTFVAVHTPPIAFSGSKSLVETVGSQVRI PVKYLSTP 358
DB 299 RSDQGLYTCASSSGMIRKRTFVAVHTPPIAFSGSKSLVETVGSQVRI PVKYLSTP 358
QY 361 APDIKMYRNGRIEESNYTMI VGDDELTIMEVTERDAGNYVILTNPISEKOSHMTSLVYN 420
DB 361 APDIKMYRNGRIEESNYTMI VGDDELTIMEVTERDAGNYVILTNPISEKOSHMTSLVYN 420
QY 359 PPEIKMYKNGIPLIESNHTIKAGHVLITNEVSRDGNITVILTNPISEKOSHMTSLVYN 418
DB 359 PPEIKMYKNGIPLIESNHTIKAGHVLITNEVSRDGNITVILTNPISEKOSHMTSLVYN 418
QY 421 VPOIGEKALISPMDSYOYGTQTLCTVYANPLPHIQLQWQLEBAGSYRSGQ-----TS 476
DB 421 VPOIGEKALISPMDSYOYGTQTLCTVYANPLPHIQLQWQLEBAGSYRSGQ-----TS 476
QY 419 VPOIGEKALISPMDSYOYGTQTLCTVYALPRPHIHMWQLEBAGSYRSGQ-----TS 478
DB 419 VPOIGEKALISPMDSYOYGTQTLCTVYALPRPHIHMWQLEBAGSYRSGQ-----TS 478
QY 477 PLYCKEHWAVEDFOGCKNIEVTKNOYALIEGKNKTVSTLIVQANVSALYKCEAINKAGR 536
DB 477 PLYCKEHWAVEDFOGCKNIEVTKNOYALIEGKNKTVSTLIVQANVSALYKCEAINKAGR 536
QY 479 PLYCKEHWAVEDFOGCKNIEVTKNOYALIEGKNKTVSTLIVQANVSALYKCEAINKAGR 538
DB 479 PLYCKEHWAVEDFOGCKNIEVTKNOYALIEGKNKTVSTLIVQANVSALYKCEAINKAGR 538
QY 537 GERVISFVINGEPTTVOPTBOESVILCTADRNFEVLTMYKLSQATSHMGES 596
DB 537 GERVISFVINGEPTTVOPTBOESVILCTADRNFEVLTMYKLSQATSHMGES 596
QY 539 GERVISFVINGEPTTVOPTBOESVILCTADRNFEVLTMYKLSQATSHMGES 598
DB 539 GERVISFVINGEPTTVOPTBOESVILCTADRNFEVLTMYKLSQATSHMGES 598
QY 597 LTPVCKNDALMKNLNGTWFNSNTNDILIVAFQNASLQDGDYVCAQDRTKGRHCLVQ 656
DB 597 LTPVCKNDALMKNLNGTWFNSNTNDILIVAFQNASLQDGDYVCAQDRTKGRHCLVQ 656
QY 599 PTPVCKNDALMKNLNGTWFNSNTNDILIVAFQNASLQDGDYVCAQDRTKGRHCLVQ 658
DB 599 PTPVCKNDALMKNLNGTWFNSNTNDILIVAFQNASLQDGDYVCAQDRTKGRHCLVQ 658
QY 657 LILIERMAPMTGNLENOTTTIGETIETVCPASGNPTPHITFKNETLVEDSGIVLNDG 716
DB 657 LILIERMAPMTGNLENOTTTIGETIETVCPASGNPTPHITFKNETLVEDSGIVLNDG 716
QY 659 LTVLERVAPPTTGNLENOTTTIGETIETVCPASGNPTPHITFKNETLVEDSGIVLNDG 718
DB 659 LTVLERVAPPTTGNLENOTTTIGETIETVCPASGNPTPHITFKNETLVEDSGIVLNDG 718
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QY 717 NENLTIRVRKEDGGLYTCQACNVLCARAEITLFTIEGAQEKTNLEVIILVGTAVIAMEF 776
DB 719 NENLTIRVRKEDGGLYTCQACNVLCARAEITLFTIEGAQEKTNLEVIILVGTAVIAMEF 778
QY 777 WLLVIVLTFRANEGELKTGYLSTVMDPDELPLDERCERL PYDASKMEPRDRILKLG 836
DB 779 WLLVIVLTFRANEGELKTGYLSTVMDPDELPLDERCERL PYDASKMEPRDRILKLG 838
QY 837 PLGRGAFQGVIEADAFGLDKTATCTVAVNMLKEGATSEHIALNSLKLHIGHLAV 896
DB 839 PLGRGAFQGVIEADAFGLDKTATCTVAVNMLKEGATSEHIALNSLKLHIGHLAV 898
QY 897 VMLGACTKPGPLAWIYVEFCFGNLTSLRGRNEFVYKSGARFROGXDVYGBELSD 956
DB 899 VMLGACTKPGPLAWIYVEFCFGNLTSLRGRNEFVYKSGARFROGXDVYGBELSD 958
QY 957 LKRRLDSTSSQSSASGFEVEKSLSDVEEBASELYKDLTLEHLICYSFOVAKGMEF 1016
DB 959 LKRRLDSTSSQSSASGFEVEKSLSDVEEBASELYKDLTLEHLICYSFOVAKGMEF 1018
QY 1017 LASRRCIRHDLAARNILISEKRVVYKICDPLARDIYKDPDYRKGDARLPLKMAPEITF 1076
DB 1019 LASRRCIRHDLAARNILISEKRVVYKICDPLARDIYKDPDYRKGDARLPLKMAPEITF 1078
QY 1077 DRVYTIQSDVMSFGVLWEIFSLGASPYPGVYKIDBEFCRLKEGTRMRAPDYTTPEMYOT 1136
DB 1079 DRVYTIQSDVMSFGVLWEIFSLGASPYPGVYKIDBEFCRLKEGTRMRAPDYTTPEMYOT 1138
QY 1137 MLDCEHEDPNORPSFSEVLEHLGNLLOANAQDGDYVLPMSSETLSMEEDSGLSLPTSP 1196
DB 1139 MLDCEHEDPNORPSFSEVLEHLGNLLOANAQDGDYVLPMSSETLSMEEDSGLSLPTSP 1198
QY 1197 VSCMEEBEYCDPKFYDNTAGISHTLQNSKRSRVS YKTFEDILPEBEVYVITDDSGT 1256
DB 1199 VSCMEEBEYCDPKFYDNTAGISHTLQNSKRSRVS YKTFEDILPEBEVYVITDDSGT 1258
QY 1257 DSGWVLASEBELKTLEDRKLSPSFGMMPSKRSRESVASGSGTSGYSGYSDTDTTV 1316
DB 1259 DSGWVLASEBELKTLEDRKLSPSFGMMPSKRSRESVASGSGTSGYSGYSDTDTTV 1318
QY 1317 YSSDEAGLLKNVDAVHA-----DSGTTLRSPV 1345
DB 1319 YSSDEAGLLKNVDAVHA-----DSGTTLRSPV 1356

RESULT 14
US-10-394-322A-66
; Sequence 66, Application US/10394322A
; Publication No. US2003023291A1
GENERAL INFORMATION:
; APPLICANT: SUNESIS PHARMACEUTICALS, INC.
; APPLICANT: Prescott, John C.
; TITLE OF INVENTION: IDENTIFICATION OF KINASE INHIBITORS
; FILE REFERENCE: 39750-0006 US
; CURRENT APPLICATION NUMBER: US/10/394,322A
; CURRENT FILING DATE: 2003-03-20
; PRIOR APPLICATION NUMBER: US 60/366,892
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 66
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-394-322A-66

Query Match      86.9%; Score 6124.5; DB 4; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMFCVETRAASVGLTGDPLHPPKLTSTOKDILITLANTTLQITCRGORDLD 60
DB 1 MOSKULLAVALMFCVETRAASVGLTGDPLHPPKLTSTOKDILITLANTTLQITCRGORDLD 60
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Db 1 MOSKYLALVALMFCVETRAASVGLPSVSLDLPRLSIQDILITIKANTTLQITCRGQRDL 60
QY 61 WLMWNAQRDEBERVLYTECGGDSIFCKTLTIPRVVNDGTGAYKCYSDVDVIASTVYVY 120
Db 61 WLMWNAQRDEBERVLYTECGGDSIFCKTLTIPRVVNDGTGAYKCYSDVDVIASTVYVY 118
QY 121 RDYSPFIASVSDOHGIVYITENKNTVYIPCRGSI SNLVNSLCARYEKPFPDGNRIS 180
Db 119 QDYSPFIASVSDOHGIVYITENKNTVYIPCLGSI SNLVNSLCARYEKPFPDGNRIS 178
QY 181 WDSKGFITPSYMI SYAGWVFCFAKINDETSYIMYIVVVGYRIYDVLLSPSHGIELSV 240
Db 179 WDSKGFITPSYMI SYAGWVFCFAKINDETSYIMYIVVVGYRIYDVLLSPSHGIELSV 238
QY 241 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDUKPPGTAVAKMFLSTLTIESVT 300
Db 239 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDUKPPGTAVAKMFLSTLTIESVT 298
QY 301 KSDGERTCVASSGGMIRKARTFVRVHTKPPFIAGSGKSLVEATVSGVARI PVKYLSP 360
Db 299 RSDQGLYTCASSSGIMTKKNSITFVYVHEKPFVAFSGSGMESLVEATVGERVRIIPAKYLGP 358
QY 361 APDIKWYNGRPISSENYTMIYVDELTIMEVTERDAGNTVLTINPISMEKSHWVSIYVN 420
Db 359 PPEIKWYNGIPLBSNHTIKAGHVLTITMEVESRDTGNTVLTINPISMEKSHWVSIYVN 418
QY 421 VPPOIGERKALISPMDSYOGTQWLTCTVYANPPLHHIQMTWOLEACSYRPGQ----TS 476
Db 419 VPPOIGERKALISPMDSYOGTQWLTCTVYANPPLHHIQMTWOLEACSYRPGQ----TS 478
QY 477 PYACEKWHVHEDPQCGNKIEVTKNOYALIEGKNTVSLTVIQANVSLALYCEALINKR 536
Db 479 PYACEKWHVHEDPQCGNKIEVTKNOYALIEGKNTVSLTVIQANVSLALYCEALINKR 538
QY 537 GERVYSFVYIGPSETTVQPAOQTEQESVSLCTADRTPENLTMYKLGSAITSVHMGES 596
Db 539 GERVYSFVYIGPSETTVQPAOQTEQESVSLCTADRTPENLTMYKLGSAITSVHMGES 598
QY 597 LTPVCKNLDALMKLNGTWFNSNSTNDILIVAFONASLQDQGVYCSAODKTKKHCVLQK 656
Db 599 LTPVCKNLDALMKLNGTWFNSNSTNDILIVAFONASLQDQGVYCSAODKTKKHCVLQK 658
QY 657 LIILERNAPMITGNENOTTIGETIEVTCPASNPPTHITWFKDNEFLVEDSGIYLRDG 716
Db 659 LTVIERVAPITIGNENOTTIGESIEVSCASGNPQJIMWFKDNEFLVEDSGIYLRDG 718
QY 717 NRNLTIRVRKEDGLYTCOACNVLCARAEFLIIEGAOKETNLEVIILVGTAVIANMF 776
Db 719 NRNLTIRVRKEDGLYTCOACNVLCARAEFLIIEGAOKETNLEVIILVGTAVIANMF 778
QY 777 WLLVLIVLRTVKRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEFPDRKLKG 836
Db 779 WLLVLIVLRTVKRANEGELKTGYLSI VMDPDELPLDERCERLPYDASKMEFPDRKLKG 838
QY 837 PLGGAFCQVIEADAFGIDKTATCTVAVKMLKSGATSHSRALMSELKILIHGHILNV 896
Db 839 PLGGAFCQVIEADAFGIDKTATCTVAVKMLKSGATSHSRALMSELKILIHGHILNV 898
QY 897 VNLGACFKPGGPLMVIYEFCKFGNLSTYLTKGNEFPYKSKGAPFOGQDGYGELSVD 956
Db 899 VNLGACFKPGGPLMVIYEFCKFGNLSTYLTKGNEFPYKSKGAPFOGQDGYGELSVD 958
QY 957 LKRRULDSITSSQSSASGFEVEKSLSDVEEESAESELYKDFLLEHLICYSFOYAKMGF 1016
Db 959 LKRRULDSITSSQSSASGFEVEKSLSDVEEESAESELYKDFLLEHLICYSFOYAKMGF 1018
QY 1017 LASRKCIRDLAANNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPETIF 1076
Db 1019 LASRKCIRDLAANNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPETIF 1078
QY 1077 DRVYTIOSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMKA PDYTTPEMYOT 1136
Db 1079 DRVYTIOSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMKA PDYTTPEMYOT 1138

QY 1137 MLDCHBEDPNQRPSPSELVEHLGNLLOANAOQDGDYIVLPMSETLMEEDSGLSLPTSP 1196
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QY 1197 VSCMEEEVCDPKRHYNTAGISHTYLONSKRKSHPVSKTFEDIPLEPEVKVLPDDSQ 1236
Db 1199 VSCMEEEVCDPKRHYNTAGISHTYLONSKRKSHPVSKTFEDIPLEPEVKVLPDDSQ 1258
QY 1257 DSGWVLAASELKTLEDNKLSPSPFGMMPSKRSRESVASEGNOTSGYOSGYHSDDTPTV 1316
Db 1259 DSGWVLAASELKTLEDNKLSPSPFGMMPSKRSRESVASEGNOTSGYOSGYHSDDTPTV 1318
QY 1317 YSSDEAGLLKVVDAVHA-----DSGTTLSPPV 1345
Db 1319 YSSDEAGLLKVVDAVHA-----DSGTTLSPPV 1356

RESULT 15
US-10-440-464-129
; Sequence 129, Application US/10440464
; Publication No. US20040018528A1
; GENERAL INFORMATION:
; APPLICANT: DEPRIMO, SAMUEL
; APPLICANT: O'FARRELL, ANNE-MARIE
; APPLICANT: MORIMOTO, AYESA
; APPLICANT: SMOLICH, BEVERLY
; APPLICANT: MANNING, WILLIAM
; APPLICANT: WALTER, SARAH
; APPLICANT: CHERRINGTON, JULIE
; TITLE OF INVENTION: NOVEL BIOMARKERS OF TYROSINE KINASE INHIBITOR EXPOSURE
; FILE REFERENCE: 038602/1592
; CURRENT APPLICATION NUMBER: US/10/440,464
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: 60/380,872
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/448,922
; PRIOR FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: 60/448,874
; PRIOR FILING DATE: 2003-02-24
; NUMBER OF SEQ ID NOS: 185
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 129
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-440-464-129

Query Match 86.9%; Score 6124.5; DB 4; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

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Db 61 WLMWNAQRDEBERVLYTECGGDSIFCKTLTIPRVVNDGTGAYKCYSDVDVIASTVYVY 118
QY 121 RDYSPFIASVSDOHGIVYITENKNTVYIPCRGSI SNLVNSLCARYEKPFPDGNRIS 180
Db 119 QDYSPFIASVSDOHGIVYITENKNTVYIPCLGSI SNLVNSLCARYEKPFPDGNRIS 178
QY 181 WDSKGFITPSYMI SYAGWVFCFAKINDETSYIMYIVVVGYRIYDVLLSPSHGIELSV 240
Db 179 WDSKGFITPSYMI SYAGWVFCFAKINDETSYIMYIVVVGYRIYDVLLSPSHGIELSV 238
QY 241 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDUKPPGTAVAKMFLSTLTIESVT 300
Db 239 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDUKPPGTAVAKMFLSTLTIESVT 298

Search completed: January 30, 2006, 12:03:19
Job time : 126 secs

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Db 299 RSDQGLYTCASSGLMTKKNSTFVRVHEKPFVAFSGMSLVLEATGGERVIRIPAKLIGTP 358
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Qy 361 APDIKRYRGRPRLESNTYMI VGEDELTIMEYTERDAGNTYVILTNPI SM EKOSHMSLVVN 420
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Db 359 PEIKRYKNGIPLESNHTIKAGHVTIMEYSEBDTGNVTIILTNPI SK EKOSHMSLVVY 418
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Qy 421 VPPQIGERKALISPMDSYOGTMO TLCTYANPPLHIOMYMOLEBACSYRPGQ----TS 476
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Qy 717 NENLTI RRVKEDGELYTCQACNVLCAPAEFTLPIIEGAQEKTNLEVIIIVGTAVIAMFF 776
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Qy 897 VNLGACTKPGGPLMYIVEFCFGNLSYLRGKRNEFVVPYKSGARFRQGXDYVGLSYD 956
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Db 899 VNLGACTKPGGPLMYIVEFCFGNLSYLRGKRNEFVVPYKSGARFRQGXDYVGLSYD 958
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Db 1079 DRVYTIQSDVMSFGVLLWEIFSLGASPYPGVKIDEFCRLKEGTRMRAPDYTTPEMYQT 1138
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Qy 1137 MUDCHBDPNQRPSESELVEHGNLLOANAODGKDIYLPMSSETLSMEBDGSLPTSP 1196
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Qy 1257 DSGMYLASBELKTLLEDNRKLSPSPGGMMPKSGRESVASEGSNQTSGYOSGYSDDTDTTV 1316
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Db 1259 DSGMYLASBELKTLLEDNRKLSPSPGGMMPKSGRESVASEGSNQTSGYOSGYSDDTDTTV 1318
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Qy 1317 YSSDEAGLLKMWDAVHA-----DSGTLRSPV 1345
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1319 YSSDEAGLLKMWDAVHA-----DSGTLRSPV 1356
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 30, 2006, 11:52:41 ; Search time 34 Seconds
(without alignments)
426.385 Million cell updates/sec

Title: US-10-090-183-6

Perfect score: 7046
Sequence: 1 MESKALLAVLWLFVETRAA.....KMYDAVHADSGTLRSPV 1345

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 75621 seqs, 10829074 residues

Total number of hits satisfying chosen parameters: 75621

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA_New*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB_PEP.*
- 2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB_PEP.*
- 3: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB_PEP.*
- 4: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB_PEP.*
- 5: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB_PEP.*
- 6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB_PEP.*
- 7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB_PEP.*
- 8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB_PEP.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6124.5	86.9	1356	US-10-995-561-904	Sequence 904, App
2	6124.5	86.9	1356	US-10-995-561-906	Sequence 906, App
3	5855.5	83.1	1306	US-10-995-561-905	Sequence 905, App
4	3345	46.1	767	US-11-043-693-2	Sequence 2, Appl1
5	3240	46.0	764	US-11-104-110-8	Sequence 8, Appl1
6	2879.5	40.9	592	US-11-104-110-9	Sequence 9, Appl1
7	2733.5	38.8	1368	US-11-043-693-34	Sequence 34, Appl1
8	2694.5	38.2	1338	US-11-109-156-23	Sequence 23, Appl1
9	2693.5	38.2	1338	US-10-821-234-1622	Sequence 1622, Ap
10	2691.5	38.2	1362	US-11-043-693-33	Sequence 33, Appl1
11	2653	37.7	1363	US-11-043-693-32	Sequence 32, Appl1
12	1600	22.7	316	US-11-092-168-10	Sequence 10, Appl1
13	1186.5	16.8	777	US-11-043-693-3	Sequence 3, Appl1
14	1162	16.5	1451	US-10-995-561-829	Sequence 829, App
15	1046.5	14.9	758	US-11-043-693-1	Sequence 1, Appl1
16	990.5	14.1	972	US-10-821-234-1587	Sequence 1587, Ap
17	891.5	12.7	433	US-11-092-168-6	Sequence 6, Appl1
18	822.5	11.7	383	US-11-092-168-7	Sequence 7, Appl1
19	802	11.7	411	US-11-092-168-8	Sequence 8, Appl1
20	807	11.5	310	US-11-092-168-9	Sequence 9, Appl1
21	598.5	8.5	258	US-10-877-346-75	Sequence 75, Appl1
22	559	7.9	1367	US-10-995-561-538	Sequence 538, App
23	559	7.9	1367	US-11-113-202-18	Sequence 18, Appl1
24	557.5	7.9	1368	US-10-995-561-539	Sequence 539, App
25	550.5	7.8	458	US-11-016-503-16	Sequence 16, Appl1

26	550.5	7.8	458	US-11-089-803-6	Sequence 6, Appl1
27	550.5	7.8	458	US-11-149-738-2	Sequence 2, Appl1
28	550.5	7.8	458	US-11-155-269-2	Sequence 12, Appl1
29	544.5	7.7	458	US-11-016-503-12	Sequence 2, Appl1
30	544.5	7.7	458	US-11-089-803-2	Sequence 2, Appl1
31	543.5	7.7	430	US-11-016-503-17	Sequence 17, Appl1
32	521.5	7.4	240	US-11-089-803-23	Sequence 23, Appl1
33	509.5	7.2	1390	US-10-957-351-1	Sequence 1, Appl1
34	484	6.9	97	US-11-043-693-50	Sequence 50, Appl1
35	477	6.8	943	US-11-113-202-8	Sequence 8, Appl1
36	477	6.8	1210	US-11-113-202-6	Sequence 6, Appl1
37	477	6.8	1210	US-11-145-566-1	Sequence 1, Appl1
38	473	6.7	567	US-11-016-503-10	Sequence 10, Appl1
39	472	6.7	567	US-11-016-503-2	Sequence 2, Appl1
40	469	6.7	293	US-11-092-168-11	Sequence 11, Appl1
41	468	6.6	557	US-11-016-503-4	Sequence 4, Appl1
42	466.5	6.6	450	US-11-109-156-21	Sequence 21, Appl1
43	466.5	6.6	450	US-11-230-995-5	Sequence 5, Appl1
44	450	6.4	983	US-11-113-424-59	Sequence 59, Appl1
45	442.5	6.3	987	US-10-949-720-395	Sequence 395, App

ALIGNMENTS

RESULT 1
US-10-995-561-904
Sequence 904, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
FILE REFERENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 904
LENGTH: 1356
TYPE: PRT
ORGANISM: Homo sapiens
US-10-995-561-904

Query Match 86.9%; Score 6124.5; DB 6; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

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DB	1	MOSKVLVAVLWLFVETRAASVGLTSLDPLRSTIQKDLTKANTTLQITCRGORDD	60
QY	61	WLPNARDSEBRYLVTECGGDSIFCKTLTPRVVNDTGAYKCSYRDVDIASTVYVV	120
DB	61	WLPNNGGSEBRYLVTECG--SDGLFCKTLTPKIVGDTGAYKCFYHETDLASVYVV	118
QY	121	RDYRSPFIASVSDGIVYITENKQYVYIPKGSISUNANSLCARYPEKRPVPGNRIS	180
DB	119	QDYRSPFIASVSDGIVYITENKQYVYIPCLGISISUNANSLCARYPEKRPVPGNRIS	178
QY	181	WDSEIGFTLPSYMSIYAGVFCFAKINDETOSIYIVVGYRYDYTLSPHEIELSA	240
DB	179	WDSKGFITIPSYMSIYAGVFCFAKINDETOSIYIVVGYRYDYTLSPHEIELSA	238
QY	241	GEKLVNCTARTELNVGLDFTWSPSPSKSHKKIVNRDVKPPGTAVAKFSTLTIESVT	300
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QY	301	KSDQSEYTCVASSGMIRKRTFVAIVHTKPFIAFGSKSLVEALVQSGVRIPVKYLSP	360
DB	299	RSDQGLYTCVASSGMIRKRTFVAIVHTKPFIAFGSKSLVEALVQSGVRIIPAKYLGYP	358

361 APDIKWRNGRPIESNTYMTIVGDELTIMEYTERDAGNYTILTNPISEKOSHMSVSVN 420
359 PPEIKWKNGIPIESNHTIKAGHVLTIMEVSEBDGNTVTLTNPISEKOSHMSVSVN 418
421 VPPQIGKALISPMDSYQYGTOTLTCTVYANPPLHHIOWTQOLEACSTRPGO---TS 476
419 VPPQIGKALISPMDSYQYGTOTLTCTVYALPPPHIHWMOLEECANBPSQAVSVTN 478
477 PYACKERHVEDFOGNGKIEVTKNOYALIEGKNTVSTLVIQANVSAALYCEAINKAGR 536
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537 GERVISFHVIRGPEITVQPAAPTEQESVSLCTADRNTFENLWYKLGSAQTSVHMGES 596
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597 LTPVCKNLDALMKLNGMTFNSSTNDILVAFONASLODQGYVCSAODKTKKHCCLVKQ 656
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717 NRNLTIIRVAKEDGGLYTCQACNVLCARAEPLTPIIEGAOEXTNLEVIILVGTAVIAMFF 776
719 NRNLTIIRVAKEDGGLYTCQACNVLCARAEPLTPIIEGAOEXTNLEVIILVGTAVIAMFF 778
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779 WLLVIVLRTVKRANEGELKTGYLSIVNDPDELPLDERCERLPYDASKWEPDRDLKLGK 838
837 PLRGAFQGVILEADAFGIDTATCTKTVAVKMLKEGATSEHRALMSELKILIHGHILNV 896
839 PLRGAFQGVILEADAFGIDTATCTKTVAVKMLKEGATSEHRALMSELKILIHGHILNV 898
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899 VNLGACTKPGGPMVIVYEFCKFGNLTLYLGKNEFPIYKSKAGRFQGYGELSD 958
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1019 LASRKHIRDLAARNILSEKNVYKICDFGLARDIYKDPDYVRKGDARLPLKMAAPETIF 1078
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1199 VSCHEEBEVCDPKPHYDNTAGISHYLONSKKRSRPVSKTFEDIPLBEPYKVIIPDDSQT 1258
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1259 DSGNVALSEELKTIEDRNKLSPSFGGMPPSKSRBSVASEGSNQTSGYOSGHSDDTDTTV 1318
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1319 YSDEAGLLKMWDAVHA-----DSGTTLRSPPV 1356

RESULT 2
US-10-995-561-906
; Sequence 906, Application US/10995561
; Publication No. US20050272054A1

GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: C0001559
; CURRENT FILING DATE: 2004-11-24
; CURRENT APPLICATION NUMBER: US/10/995,561
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 906
; LENGTH: 1356
; TYPE: PRN
; ORGANISM: Homo sapiens
US-10-995-561-906

Query Match 86.9%; Score 6124.5; DB 6; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

1 MESKALVALAMFCVETRAASVGLTGDPLHPKLTQKIDILITANTTLIQTTCRGQRDL 60
1 MOSKVALVALMFCVETRAASVGLTGDPLHPKLTQKIDILITANTTLIQTTCRGQRDL 60
61 WLPNQRDSEERVLVTECGGDSIFCKTLTTPRVGNDTGAYKCYRVDVIASTVYV 120
61 WLPNQRDSEERVLVTECGGDSIFCKTLTTPRVGNDTGAYKCYRVDVIASTVYV 118
121 RDVSPFIASVDOHGVITTEKNKTVI PCRSISNLNWSLCARPERKFPVDGNIS 180
119 QDRSPFIASVDOHGVITTEKNKTVI PCRSISNLNWSLCARPERKFPVDGNIS 178
181 WDEISGTLPSYMSIYAGWYFCEAKINDETYOSIMYIVVWGYRIYVILISPPEHIEISA 240
179 WDSKGGTISYMSIYAGWYFCEAKINDETYOSIMYIVVWGYRIYVILISPPEHIEISA 238
241 GEKVLNCTARTEINVLGDLPTWSPSKSHHKKI VNRDVKRPFCTVAKMFLSTLTIESVT 300
239 GEKVLNCTARTEINVLGDLPTWSPSKSHHKKI VNRDVKRPFCTVAKMFLSTLTIESVT 298
301 KSDGCEYTCVASSGRMKRRTFVRVHTKPIAFSGSMKSLVEKTVSGQVAPYKYSYP 360
299 KSDGCEYTCVASSGRMKRRTFVRVHTKPIAFSGSMKSLVEKTVSGQVAPYKYSYP 358
361 APDIKWRNGRPIESNTYMTIVGDELTIMEYTERDAGNYTILTNPISEKOSHMSVSVN 420
359 PPEIKWKNGIPIESNHTIKAGHVLTIMEVSEBDGNTVTLTNPISEKOSHMSVSVN 418
421 VPPQIGKALISPMDSYQYGTOTLTCTVYANPPLHHIOWTQOLEACSTRPGO---TS 476
419 VPPQIGKALISPMDSYQYGTOTLTCTVYALPPPHIHWMOLEECANBPSQAVSVTN 478
477 PYACKERHVEDFOGNGKIEVTKNOYALIEGKNTVSTLVIQANVSAALYCEAINKAGR 536
479 PYACKERHVEDFOGNGKIEVTKNOYALIEGKNTVSTLVIQANVSAALYCEAINKAGR 538
537 GERVISFHVIRGPEITVQPAAPTEQESVSLCTADRNTFENLWYKLGSAQTSVHMGES 596
539 GERVISFHVIRGPEITVQPAAPTEQESVSLCTADRNTFENLWYKLGSAQTSVHMGES 598
597 LTPVCKNLDALMKLNGMTFNSSTNDILVAFONASLODQGYVCSAODKTKKHCCLVKQ 656
599 LTPVCKNLDALMKLNGMTFNSSTNDILVAFONASLODQGYVCSAODKTKKHCCLVKQ 658
657 LILIERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWPKDNETLVESDGLVLDG 716
659 LTVIERVAPITLGNLENQTTIGETIEVTCPASGNPTPHITWPKDNETLVESDGLVLDG 718
717 NRNLTIIRVAKEDGGLYTCQACNVLCARAEPLTPIIEGAOEXTNLEVIILVGTAVIAMFF 776
719 NRNLTIIRVAKEDGGLYTCQACNVLCARAEPLTPIIEGAOEXTNLEVIILVGTAVIAMFF 778
777 WLLVIVLRTVKRANEGELKTGYLSIVNDPDELPLDERCERLPYDASKWEPDRDLKLGK 836

Db 779 WLLVILIRTVKANGELKTYGLSTVMPDELPJLBHCEBRLPYDASKMEFFPRDLKGR 838
Qy 837 PLGRGAFQVIEADAFGIDKTATCTVAVAVMLKEGATSEHRALMSBLKLIHIGHLNV 896
Db 839 PLGRGAFQVIEADAFGIDKTATCTVAVAVMLKEGATSEHRALMSBLKLIHIGHLNV 898
Qy 897 VNLGACTPGGGLMVIYVEFCFKNLSTYLRGRNEFVVPYKSGARFRQGDYVGEISVD 956
Db 899 VNLGACTPGGGLMVIYVEFCFKNLSTYLRGRNEFVVPYKSGARFRQGDYVGEISVD 958
Qy 957 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAEELKYDFLLEHLICYSFOVAKGMEF 1016
Db 959 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAEELKYDFLLEHLICYSFOVAKGMEF 1018
Qy 1017 LASRCKIHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPKMMAPETIF 1076
Db 1019 LASRCKIHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPKMMAPETIF 1078
Qy 1077 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTTPEMYOT 1136
Db 1079 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTTPEMYOT 1138
Qy 1137 MLDCHHEDPNORPSESELVEHLGNLQANAODGDYIVLPMSETLISMEEDSGLSLPTSP 1196
Db 1139 MLDCHHEDPNORPSESELVEHLGNLQANAODGDYIVLPMSETLISMEEDSGLSLPTSP 1198
Qy 1197 VSCMEEEVCDPKFHYDNTAGISHYLQNSKRKSRPVSVTFEDIPLEBEVAVIPDDSQT 1256
Db 1199 VSCMEEEVCDPKFHYDNTAGISHYLQNSKRKSRPVSVTFEDIPLEBEVAVIPDDSQT 1258
Qy 1257 DSGMWLASBELKTLBEDRNLSPSPGGMPSKSRRESVAGSNGTSGYSGYHSDDTDTV 1316
Db 1259 DSGMWLASBELKTLBEDRNLSPSPGGMPSKSRRESVAGSNGTSGYSGYHSDDTDTV 1318
Qy 1317 YSSDEAGLLKMDAVHA-----DSGTLRSPV 1345
Db 1319 YSSDEAGLLKLEIGVGTSTAOILQPDGTLSSPPV 1356

RESULT 3
US-10-995-561-905
; Sequence 905, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CLO01559
; CURRENT APPLICATION NUMBER: US/10/995,561
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 905
; LENGTH: 1306
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-905

Query Match 83.1%; Score 5855.5; DB 6; Length 1306;
Best Local Similarity 82.2%; Pred. No. 0;
Matches 116; Conservative 71; Mismatches 106; Indels 65; Gaps 4;
Qy 1 MESKALLAVLWALMFCYETRAASVGLTGLDPLHPKASTOXDILITLANTLTOTTCGQRDL 60
Db 1 MOSKVLAVLWALMFCYETRAASVGLTGLDPLHPKASTOXDILITLANTLTOTTCGQRDL 60
Qy 61 WLMFPAQDSEERVLVTECGGDSIFCKTLTIPRVVNGDTGAYKSYRVDIASVYVYV 120
Db 61 WLMFPAQDSEERVLVTECGGDSIFCKTLTIPRVVNGDTGAYKSYRVDIASVYVYV 118
Qy 121 RDYSPFIASVSDOHGIVITENKNTVIPCGRGISNLNWSLCARYPEKPFVDDGRIS 180

Db 119 ODYRSPFIASVSDOHGIVITENKNTVIPCGRGISNLNWSLCARYPEKPFVDDGRIS 178
Qy 181 WBSSEGFITPSYMIASGAVFCEAKINDETYSIMITVYVGVRIYDVILSPHELELSA 240
Db 179 WBSSEGFITPSYMIASGAVFCEAKINDETYSIMITVYVGVRIYDVILSPHELELSA 238
Qy 241 GERLVNCTARTELNVGLDFTWSPSKSHKKIVRDVCPFGTAVAKMELSTLESTY 300
Db 239 GERLVNCTARTELNVGLDFTWSPSKSHKKIVRDVCPFGTAVAKMELSTLESTY 298
Qy 301 KSDQGEYTCVASSGRMIKNRITFVRVHTKPIAFSGSMKSLVEATVGSQVRIPVKI,ASP 360
Db 299 RSDQGLYTCVASSGLMTKNGSTFVRVHEKPFVAFSGSMKSLVEATVGEVRIIPAKTLGPF 358
Qy 361 ABDIKYRGRITLESYTMIVDELTIMVTERDAGNTVYIITNPI,SMKOSHMSLVYN 420
Db 359 PEIKMYKNGIPILESHTIKAGHVLITMSESRBDGNTVYIITNPI,SKESHVSVLVY 418
Qy 421 VPPQIGEKALISPMDSYOYGTMTCTCTYANPPLHHIOWMQLBEACGYRPGQ----TS 476
Db 419 VPPQIGEKALISPMDSYOYGTMTCTCTYANPPLHHIOWMQLBEACGYRPGQ----TS 478
Qy 477 PYACKEMRVEDPFOGANKIEVTKNOYALIEGKNTVSTLVIAANVSALYKCEALINKAR 536
Db 479 PYACKEMRVEDPFOGANKIEVTKNOYALIEGKNTVSTLVIAANVSALYKCEALINKAR 538
Qy 537 GERVLSFHYIRGPEITVQPAAPOTPOESVSLCTADRNTFENLTYKLGASQATSVHGES 596
Db 539 GERVLSFHYIRGPEITVQPAAPOTPOESVSLCTADRNTFENLTYKLGASQATSVHGES 598
Qy 597 LPPVCKNDLAKLNGTMSNSTNDILTVAPONASLQODGDVYCSAODPKTKKRCCLVNO 656
Db 599 LPPVCKNDLAKLNGTMSNSTNDILTVAPONASLQODGDVYCSAODPKTKKRCCLVNO 658
Qy 657 LIILBRMAPMITGNLENQTTIGETIEVYCPASGNPTPIITWFKONETLVEDSGI,VLADG 716
Db 659 LIILBRMAPMITGNLENQTTIGETIEVYCPASGNPTPIITWFKONETLVEDSGI,VLADG 718
Qy 717 NRNLTIIRVRKEDGGLYTCQACNVLCARAEITFLIEGAQEKTNLEVIITLVGTAVIAMEF 776
Db 719 NRNLTIIRVRKEDGGLYTCQACNVLCARAEITFLIEGAQEKTNLEVIITLVGTAVIAMEF 778
Qy 777 WLLVILIRTVKRAEGELKTYGLSIWMPDELPJLBHCEBRLPYDASKMEFFPRDLKGR 836
Db 779 WLLVILIRTVKRAEGELKTYGLSIWMPDELPJLBHCEBRLPYDASKMEFFPRDLKGR 838
Qy 837 PLGRGAFQVIEADAFGIDKTATCTVAVAVMLKEGATSEHRALMSBLKLIHIGHLNV 896
Db 839 PLGRGAFQVIEADAFGIDKTATCTVAVAVMLKEGATSEHRALMSBLKLIHIGHLNV 898
Qy 897 VNLGACTPGGGLMVIYVEFCFKNLSTYLRGRNEFVVPYKSGARFRQGDYVGEISVD 956
Db 899 VNLGACTPGGGLMVIYVEFCFKNLSTYLRGRNEFVVPYKSGARFRQGDYVGEISVD 958
Qy 957 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAEELKYDFLLEHLICYSFOVAKGMEF 1016
Db 940 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAEELKYDFLLEHLICYSFOVAKGMEF 968
Qy 1017 LASRCKIHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPKMMAPETIF 1076
Db 969 LASRCKIHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPKMMAPETIF 1028
Qy 1077 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTTPEMYOT 1136
Db 1029 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTTPEMYOT 1088
Qy 1137 MLDCHHEDPNORPSESELVEHLGNLQANAODGDYIVLPMSETLISMEEDSGLSLPTSP 1196
Db 1089 MLDCHHEDPNORPSESELVEHLGNLQANAODGDYIVLPMSETLISMEEDSGLSLPTSP 1148
Qy 1197 VSCMEEEVCDPKFHYDNTAGISHYLQNSKRKSRPVSVTFEDIPLEBEVAVIPDDSQT 1256

Db 1149 VSCMBEBCVCPKRYHNTAGISQYLQNSKRSRPSVKTEDIPLEPEVKVIPDNDQT 1208
Qy 1257 DSGWVLAASELKTLEDNRKLSPPSGMMPSPKSRRESVASEGNSGTGYSHSDPTDTTV 1316
Db 1209 DSGWVLAASELKTLEDNRKLSPPSGMMPSPKSRRESVASEGNSGTGYSHSDPTDTTV 1268
Qy 1317 YSSDBAGLLKXNDAAVHA-----DSGTTLRSPPV 1345
Db 1269 YSSDBAGLLKXNDAAVHA-----DSGTTLRSPPV 1306

RESULT 4
US-11-043-693-2
; Sequence 2, Application US/11043693
; Publication No. US20050281831A1
; GENERAL INFORMATION:
; APPLICANT: Davis-Smyth, Terri L.
; APPLICANT: Chen, Helen H.
; APPLICANT: Presta, Leonard
; APPLICANT: Ferreira, Napoleone
; TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
; NUMBER OF INVENTION: PRODUCTION
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESS: Dorsey & Whitney LLP
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/043,693
; FILING DATE: 26-Jan-2005
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/105,901
; FILING DATE: 20-Mar-2002
; APPLICATION NUMBER: 09/348,886
; FILING DATE: 01-JUL-1999
; APPLICATION NUMBER: US 08/643,839
; FILING DATE: 07-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard F. Treacartin
; REGISTRATION NUMBER: 31,801
; REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 767 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-11-043-693-2

Query Match 46.1% Score 3245; DB 7; Length 767;
Best Local Similarity 79.9%; Pred. No. 9.5e-213; Indels 6; Gaps 2;
Matches 612; Conservative 56; Mismatches 92;

Qy 1 MESKALLAVALMFCVETRAASVGLTGFAPPKLSTQDILITLANTTLQITCRGORDLD 60
Db 1 MESKYLALVALMLCVETRAASVGLTGFAPPKLSTQDILITLANTTLQITCRGORDLD 60
Qy 61 WLMFPAQDSERVLVTECGGDSIFCKTLTIPRVGNDTGAAYKCSYADVDAIATVYV 120

Db 61 WLMFPAQDSERVLVTECGGDSIFCKTLTIPRVGNDTGAAYKCSYADVDAIATVYV 118
Qy 121 RDYRPFIAVSVDHGIVYITENKNTVPIPCRSISNLNLSLCARPERKFPVDDGRNIS 180
Db 119 QDYSFPFIASVDHGVYITENKNTVPIPCRSISNLNLSLCARPERKFPVDDGRNIS 178
Qy 181 WDSIGFTLPSYMTSYGAWFCEAKINDETYQSMYVYVYGRYIYVILSPHIEISA 240
Db 179 WDSKGFPIPSYMTSYGAWFCEAKINDETYQSMYVYVYGRYIYVILSPHIEISV 238
Qy 241 GEKVLNCTARTENLVGLDFTWHSPPSKSHHKIYNVDVYKFPETVAKMFLSTLTIESVT 300
Db 239 GEKVLNCTARTENLVGLDFTWHSPPSKSHHKIYNVDVYKFPETVAKMFLSTLTIESVT 298
Qy 301 KSDGEYTCVASSGRMIRKRTFVRVHTKPFIAFGSKSLVEATVSGOYRIPVYKLSYP 360
Db 299 RSDGGLTCAASSGLMIRKRTFVRVHTKPFIAFGSKSLVEATVSGOYRIPVYKLSYP 358
Qy 361 APDIKMYRNGRPIESNTYVGEDELIMEYTERDAGNYTVILNIPISMEKOSHVSILVN 420
Db 359 PPEIKMYKNGIPIESNTYVGEDELIMEYTERDAGNYTVILNIPISMEKOSHVSILVN 418
Qy 421 VPPQIGKALISPDVSYOYGTOTLTCTVYANPPLHIIOMWOLEACSVYRPGO---TS 476
Db 419 VPPQIGKALISPDVSYOYGTOTLTCTVYANPPLHIIOMWOLEACSVYRPGO---TS 478
Qy 477 PYACKEMRHVEDFQGNKIEVTKNOVALIEGKNTVSTLVIOANVSALYKCEAINKAGR 536
Db 479 PYCEEMRVSVDFOGNKIEVTKNOVALIEGKNTVSTLVIOANVSALYKCEAINKAGR 538
Qy 537 GERVISFHVTRGPETITQPPAQPTQESVSLCTADNRTENLTWYKLGSGATSVHGES 596
Db 539 GERVISFHVTRGPETITQPPAQPTQESVSLCTADNRTENLTWYKLGSGATSVHGES 598
Qy 597 LTPVCKNLDLMTKNGTSPSNTDILIVAFQNASLDDQGYVSAODKTKRKHCVLRQ 656
Db 599 LTPVCKNLDLMTKNGTSPSNTDILIVAFQNASLDDQGYVSAODKTKRKHCVLRQ 658
Qy 657 LILERNAPMITGNLENQTTIGETIEVTCPASGNPPTHTWFDONETLVDSGIVLRDG 716
Db 659 LTVLRVAPITGNLENQTTIGETIEVTCPASGNPPTHTWFDONETLVDSGIVLRDG 718
Qy 717 NRNLTIRVRKEDGGLYTCQACNVLCARAEFTLFIIGAOKTNLE 762
Db 719 NRNLTIRVRKEDGGLYTCQACNVLCARAEFTLFIIGAOKTNLE 764

RESULT 5
US-11-104-110-8
; Sequence 8, Application US/1104110
; Publication No. US20060002916A1
; GENERAL INFORMATION:
; APPLICANT: Ruggles, Sandra
; APPLICANT: Nguyen, Jack
; TITLE OF INVENTION: CLEAVAGE OF VEGF AND VEGF RECEPTOR BY WILDTYPE AND MUTANT MT-SPI
; FILE REFERENCE: 25840-502
; CURRENT APPLICATION NUMBER: US/11/104,110
; PRIOR FILING DATE: 2005-04-12
; PRIOR APPLICATION NUMBER: 60/561,720
; PRIOR FILING DATE: 2004-04-12
; PRIOR APPLICATION NUMBER: 10/677,977
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,388
; PRIOR FILING DATE: 2002-10-02
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 8
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-104-110-8

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Query Match 46.0%; Score 3240; DB 7; Length 764;
Best Local Similarity 79.9%; Pred. No.2.1e-212;
Matches 611; Conservative 56; Mismatches 92; Indels 6; Gaps 2;

OY 2 ESKALLAVALMFCVETRAASVGLTGDPLHPPKLSTOKDILTITANTLTQITCGORDLDW 61
DB 2 QSKVLLAVALMFCVETRAASVGLPSVSLDPLRLSIXDKDILTITANTLTQITCGORDLDW 61
OY 62 LMPNQRDSEERYLVLTCCGGGDSIFCKTTLTPRVAGNDTGAYKCYRDVDIASTVYYVR 121
DB 62 LMPNNGSGSEORVEYTEC--SDGLFCKTLTIPKVINIDGCAKCFYRETDLASIVYYVQ 119
OY 122 DYRSPIIASVSOHGVYITENKNKTIVIPCRBSISNLNVSICARPERKFPVDDGRISW 181
DB 120 DYRSPIIASVSOHGVYITENKNKTIVIPCLGISNLNVSICARPERKFPVDDGRISW 179
OY 182 DSEIGFTLPSYMSIYAGWYFCEAKINDETQOSIMYVWVGYRIYVVISPPHEISAG 241
DB 180 DSKKFTTIPSYMSIYAGWYFCEAKINDESYQIMYVWVGYRIYVVISPSIGILSYG 239
OY 242 EKLVINCTARTELNVGLDFTWHSPPSKSHHKIUNRDVXRPFGTVAKMLSTLTIESYTK 301
DB 240 EKLVINCTARTELNVGIDFNMEYPSKQHKKLVRNLDLTQSGSEMKKFLSTLTIDGVR 299
OY 302 SDQGYTCVASSGMIKRNRTFVRVHTKRFPIAFSGSKSLVEXTVYSORIPKXISYRA 361
DB 300 SDQGYTCVASSGMLTKKSTFVRVHEKPFVAFSGMESLVEATVBERVIRIPAKYLGYP 359
OY 362 PDIKYRNRPRESNNTYMWGDELTIMEYTERDAGNYTILTPISMEXOSHVSLVWVY 421
DB 360 PEIKYKNGIPRESNNTIAGHVLTIMESBPDGTNYTILNPISEKOSHVSILVYV 419
OY 422 PPOJGEKALISPMDSYQVGTMTLTCTVYANPLPHIOWYMOLEBASYPGQ---TSP 477
DB 420 PPOJGEKSLISPVDSYQVGTQTLCTVYAIIPPHIHMYMOLEBACANBPSAVSVTP 479
OY 478 YACKEWRHVEDQCGNKIEVTQKVALIEGKNKTSTVLTQAAVNSALYKCEALNAGRG 537
DB 480 YPCEMRSRVEDQCGNKIEVNKNQFALIEGKNKTSTVLTQAAVNSALYKCEAVNKGKG 539
OY 538 ERVISFHYRGELITWOPAAOPTBOESVSLCTADNTEENLTWYLGSOAISVHNGESL 597
DB 540 ERVISFHYRGELITLQPMOPTBOESVSLMCTADSTENLTWYLGQPLPIHVGELP 599
OY 598 TPVCNLDALMWLNGTMSNSTNDILIVAFOVASLQDQDYVCSADCKTKKRHCLVLD 657
DB 600 TPVCNLDLTLMLNTMTFNSNTNDILIMELKNASLQDQDYVCLQDRTKKRHCLVRLD 659
OY 658 IILEMAMPTISNLNQTITIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIVLRDN 717
DB 660 IILEMAMPTISNLNQTITIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIVLRDN 719
OY 718 RNLITRRVRKEDGGLYTCQACNVLCARFETLIEGADEKTNLE 762
DB 720 RNLITRRVRKEDGGLYTCQACNVLCARFETLIEGADEKTNLE 764

RESULT 6
US-11-104-110-9
; Sequence 9, Application US/11104110
; Publication No. US20060002916A1
; GENERAL INFORMATION:
; APPLICANT: Nuyven, Jack
; APPLICANT: Nuyven, Jack
; TITLE OF INVENTION: CLEAVAGE OF VEGF AND VEGF RECEPTOR BY WILDTYPE AND MUTANT MT-SPL
; FILE REFERENCE: 25840-502
; CURRENT APPLICATION NUMBER: US/11/104,110
; PRIOR FILING DATE: 2005-04-12
; PRIOR APPLICATION NUMBER: 60/561,720
; PRIOR FILING DATE: 2004-04-12
; PRIOR APPLICATION NUMBER: 10/677,977
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,388

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; PRIOR FILING DATE: 2002-10-02
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-104-110-9

Query Match      40.9%; Score 2879.5; DB 7; Length 592;
Best Local Similarity 93.2%; Pred. No. 4,3e-188;
Matches 552; Conservative 16; Mismatches 15; Indels 9; Gaps 1;

QY      763 VILVGTAVIMFPMFLVLIVLTATYKGRANEGSLKTGYLSIWNDDPDLPLDCECERLPYDA 822
       : :::::::::::::::::::::
DB      1 IILVGTAIVIMFMFLLVITLIRTYKRANGGELTKGYLSIWNDDPDLPLDEHCERLPYDA 60

QY      823 SKMEPPDRLLKLGRPLRGAFQGVTEADAFGIDKATCTCAVIAVKMLKEGATSEHRLAMS 882
       : :::::::::::::::::::::
DB      61 SKMEPPDRLLKLGRPLRGAFQGVTEADAFGIDKATCTCAVIAVKMLKEGATSEHRLAMS 120

QY      883 ELKLIIHGHLNVNVLIGACTKPGGPLMVIYEFCKFGNLSTYLKGNEFPVYKSGAR 942
       : :::::::::::::::::::::
DB      121 ELKLIIHGHLNVNVLIGACTKPGGPLMVIYEFCKFGNLSTYLKSNGNEFPVYKSGAR 180

QY      943 PRGGKDYYGELSVLDIKRRLDISITSQSASAGCFVEEKLSDVEEBEABELYKDFLTLEH 1002
       : :::::::::::::::::::::
DB      181 PRGGKDYYGAIPVLRRLRLDISITSQSASAGCFVEEKSLDVEEBEABEDLYKDFLTLEH 240

QY      1003 LICSFQAKAMEFPLASKRCJHRDLAARNILLSEKNVYKICOPGLARDIYKDPDYVRKGD 1062
       : :::::::::::::::::::::
DB      241 LICSFQAKAMEFPLASKRCJHRDLAARNILLSEKNVYKICOPGLARDIYKDPDYVRKGD 300

QY      1063 ARPLKMAAPETIFDRVYTIIOSDVMSFCVLLMEIFSLGASPYGVKIDEEFCRRLKETR 1122
       : :::::::::::::::::::::
DB      301 ARPLKMAAPETIFDRVYTIIOSDVMSFCVLLMEIFSLGASPYGVKIDEEFCRRLKETR 360

QY      1123 MRAPDYTTPEMYQTMLDCMHEDPNORPSFSELVEHLGNILQANAQQDKDYIVLPMSETL 1182
       : :::::::::::::::::::::
DB      361 MRAPDYTTPEMYQTMLDCMHGEPGQRPFSEIVEHLGNILQANAQQDKDYIVLPISETL 420

QY      1183 SMEEDSGLSLTSPVSVCMEEREVCDPKRYHYNTGTISHYLONSKRKSRPVSYKTFEDITL 1242
       : :::::::::::::::::::::
DB      421 SMEEDSGLSLTSPVSVCMEEREVCDPKRYHYNTGTAI SQYLONSKKRSRPVSYKTFEDITL 480

QY      1243 EEPVVKVLPDSQTDSCGVTLASEBELKTLIEDBNKLSPSFGGMMPKSRRESVASSEGSNQTS 1302
       : :::::::::::::::::::::
DB      481 EEPVVKVLPDNOQDSCGVTLASEBELKTLIEDTKLSFSFGGMVPKSRRESVASSEGSNQTS 540

QY      1303 YQSGYHSDDDTDTYYSSDDEAGLLKMWDAVAHA-----DSGTTLRSPV 1345
       : :::::::::::::::::::::
DB      541 YQSGYHSDDDTDTYYSSDEAEELLKLBIGVGTSTAQLIOPDSGTTLRSPV 592

RESULT 7
US-11-043-693-34
; Sequence 34, Application US/11043693
; Publication No. US20050281831A1
GENERAL INFORMATION:
APPLICANT: Davis-Smyth, Terri L.
APPLICANT: Chen, Helen H.
APPLICANT: Presta, Leonard
APPLICANT: Ferrara, Napoleone
TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
TITLE OF INVENTION: PRODUCTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dorey & Whiltney LLP
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States

```

ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/043,693
FILING DATE: 26-Jan-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/105,901
FILING DATE: 20-Mar-2002
APPLICATION NUMBER: 09/348,886
FILING DATE: 01-JUL-1999
APPLICATION NUMBER: US 08/643,839
FILING DATE: 07-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Richard F. Treccartin
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 1368 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-11-043-693-34

Query Match 38.8%; Score 2733.5; DB 7; Length 1368;
Best Local Similarity 43.4%; Pred. No. 1,1e-177;
Matches 597; Conservative 212; Mismatches 468; Indels 97; Gaps 27;

QY 1 MESKALLAVALMFCVETRAASVGL-----TQDFLHPPLYS-TQKQDILTLANTTLQITCR 54
DB 1 MORGALLCLRLMLC-----LGLDGLVSGVSMTPPLTSITTESHVIDTGDLSISCR 53
QY 55 GORLDMLWMAQ-----RDSEERVLVTECGGDS-IFCKTLTIRPVGNDRGAYCS 106
DB 54 GQHPLEWMPGAQEPATGDSBDTGVRDCEGTADAPRYCKVLLHVNANDGSGVVCY 113
QY 107 YRDV-----DIATVVYVVDYRSPFIASVDQGIYITENKKTIVIPCRGSISNLTN 160
DB 114 YKVKIKARIEGTTASIIYIFISDTGRPFVEMYSSEIPEIITHTEGR--LVIFCRVTSPIIT 171
QY 161 VSLCARYPEKRFVDPGNRISWDSIEGTLPSYMTSYAGMVFCEAKINDETYQSIWYIVV 220
DB 172 VTL-KKFLDLTLIDGAKRIIWDNRKGFISNATYKIELTLCEATVNGHLTKT-NYLTHR 229
QY 221 VGVRIYVDIISPPHIEELISAGEKLVNTARTATLNVGLDFTMHBPSPSKSHHKIVNDRV 280
DB 230 TGNELVYDILQILPKRSLELVGEBKLVNCTVMAEFNSGVTFDMVDPGKAERGKVPERRS 289
QY 281 PPGTVAMFLSTLTIESVTSQDOGEYTCVASSGMIKRNRTFVRHTKPFIAFGSGKMS 340
DB 290 QQTHTELS---SILTIHVSGHDLGSIYCKANNGIQRRRETEVRVHNPISYEWLKG 346
QY 341 LVEATVGSQ-VRIPVKLYSPAPDIKWRNGRPRESNNTYMTVGDELTIMEVTERDAGNYT 399
DB 347 ILEATAGDELIVLPKLAAYPPPEFQWYKDGKALSGRHS---PHALVLKVEYTAISTGYT 403
QY 400 VILNPIISMESQSHMVLVNVVPPQIGKALISPMDSQYQVTMTQTLTCTVYANPLHHIQ 459
DB 404 LALNNSAAGLRNRISLELVNVVPPQIHEKASSP-SIYSRHSRQALCTTAAGVPLPLSIQ 462
QY 460 WYMOLEBACS-----RPGQTSYVACKEMRWVEDFOGKNKLEVTNQVALIGKKNT 511
DB 463 WHMRPWPCKKIFAGRSLLRRQOQDLMPCCRDMAVTTODA VNPISLDTWTFPEVGKNT 522

QY 512 VSTLVIOANVSALYKCEALNKAGRGSRVISEFHVIRGE---ITVQPAQPTGEGSVLL 568
DB 523 VSKLVIONANVSAMYKCVSNKVQODERLLYFYVTTIPDGFITSKESEELLEGQVLLS 582
QY 569 CTADRNTEFNTWKVKGQATSVHMGSLRPVCKNLDAAMLTNMTMSNSTNDI----- 622
DB 583 QQADSYTEHLRWRYLNLSTLHDAGNPLLDCKNV---HLFATPLAASLEEYAPGARH 638
QY 623 --LIVAFONASLODQGVCSADQKTKRKHCLVQKQIILERMAPMTIGNOTTTIGE 680
DB 639 ATLSLSIPRVARPEHGVYECVQDRSHDHCKHKVLSVQALEAPRLTQNTLDLVNVSD 698
QY 681 TIEVTCPASGNPTHTIWFQDNETLVDSGIVLFDGRNLTIRVRKEDGGLYTCQCNV 740
DB 699 SLEWQICVAGAHAPSIWYXDERLLEBKSGVDLSDSQKSIQIYREEDAGRYCSVNA 758
QY 741 LGCARAEITLFIIEAQOKTNLEVIIVGTAVIAEFVLLIYIVARTYKANESEGLKGYL 800
DB 759 KGCVNSSASVAVBESBESKMEIYLVGTGVIAFFVNLILLICNMRPRAHADIKTGYL 818
QY 801 SIYVDPDELPLDERCERLIPYDASKMEFPDRDLKLKGLDGRGAFQVIEADAFGIDKTATC 860
DB 819 SIYNDPGEVPLEBQCEVLSYDASQMEFPREHLHGRVLGAFQKVYBASAFGIHKSSC 878
QY 861 KTVAVKMLKEGATHSEHRAIMSELKIIHIGHLNVNLLGACTYKPGQPLMVIYEFCKG 920
DB 879 DTVAVKMLKEGATSEHRAIMSELKIIHIGHLNVNLLGACTYKPGQPLMVIYEFCKG 938
QY 921 NLSTYLGKNEFVYVSKG---ARFQKQDVYGEIS-VDLK--RLDSTSSQSSASS 973
DB 939 NLSNPLAKDADSPCAEKSPBQGRFRA---WELARLDRRKPGSSDRVLFARFSKTE 994
QY 974 GFVVEKSLSDVEEASEELYKDFLLEHLICYSFOYAKGMEFLASRKCIHRDLAARNIL 1033
DB 995 GGAARAS-----PQGEADLMLSLTWMEDLVYCSFGVARGMEFLASKKCIHRDLAARNIL 1049
QY 1034 LSEKNVYKICDFGLARDIYKDPDYVRKGDARLPLKMAPEITIPRVYTTOSDVMSFGVLL 1093
DB 1050 LSESDVYKICDFGLARDIYKDPDYVRKGSARLPLKMAPEIIPDKVYTTOSDVMSFGVLL 1109
QY 1094 WEIPLGASPYGKIDIEFCRRLKEGTRMARPYTTPBMYQTMDCMHEDPNRPSRSE 1153
DB 1110 WEIPLGASPYGQVINEEFCQRLRDTGRMAPLAPLARRILNLCMSGPKARPAPSE 1169
QY 1154 LVEHNLQANQADQKDYIVLPMSETLSEEDSGLSLTPSPVSCMEBEVECDP----- 1208
DB 1170 LVEILGDLQGRGLQBEVEVCMAPRS--SQSSESGSFQVETMLHINQADABDSPSLQR 1228
QY 1209 ---KHYDNTAGISHYIQNSKRKSRVSVKTFEDIPLEBPVKYIPDQSGTDSGMTLASE 1265
DB 1229 HSLAARYNNWVSPFGCLARGAETRGSSRMKTFEEFPW-TPYTYKGSVDNQTDSQMVLA SE 1287
QY 1266 ELKTELEPNKLSPPFG-----GMPSPKRESVASGNSQ-----TSGYQSGVHSD 1310
DB 1288 EPEQIESRHRQESGFCCKPGQNVAVTRAHPDSQGRRRRPRRGARGQGVFNSE 1341

RESULT 8
US-11-109-156-23
Sequence 23, Application US/1109156
Publication No. US20050250144A1
GENERAL INFORMATION:
APPLICANT: Toshio Ota
APPLICANT: Takao Isogai
APPLICANT: Tetsuo Nishikawa
APPLICANT: Koji Hayashi
APPLICANT: Kaoru Otsuka
APPLICANT: Jun-ichi Yamamoto
APPLICANT: Shizuko Ishii
APPLICANT: Tomoyasu Sugiyama
APPLICANT: Ai Wakamatsu
APPLICANT: Keiichi Nagai

APPLICANT: Tetsuji Otsuki
APPLICANT: Shin-ichi Funahashi
APPLICANT: Chiaki Senoo
APPLICANT: Jun-ichi Nezu
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEIN KINASE/PROTEIN
TITLE OF INVENTION: PHOSPHATASE
FILE REFERENCE: 06501-099002
CURRENT APPLICATION NUMBER: US/11/109,156
CURRENT FILING DATE: 2005-04-19
PRIOR APPLICATION NUMBER: US/10/060,065
PRIOR FILING DATE: 2002-01-29
PRIOR APPLICATION NUMBER: PCT/JP00/05061
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: US 60/159,590
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US 60/183,322
PRIOR FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: JP 11-248036
PRIOR FILING DATE: 1999-07-29
PRIOR APPLICATION NUMBER: JP 2000-118776
PRIOR FILING DATE: 2000-01-11
PRIOR APPLICATION NUMBER: JP 2000-183767
PRIOR FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: JP 2000-241899
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 23
LENGTH: 1338
TYPE: PRT
ORGANISM: Homo sapiens
US-11-109-156-23

Query Match 38.2%; Score 2694.5; DB 7; Length 1338;
Beet Local Similarity 43.4%; Pred. No. 5e-175;
Matches 597; Conservative 212; Mismatches 469; Indels 99; Gaps 28;

6 LLAVALMPCVETRAASVGLTGDPLHPKLTQKIDILTIANTTLQITCGRDLDLWLN 65
9 VLLCLLISLTLTGS---SGSKLMDPELSKGTQIMQAGOTIHLQCGEAAHKSLPE 65
66 AORDEERVLTVE--CGGDSIFPCKTLTIPRVVNDTGAKYKSYRDV-----DIASVY 117
66 MVSKESESLITKSCGRNGKOFCSLTILNTAQAHTGFCYCKYLAIVPTSKKTESAIY 125
118 VVVRDYRSPFIASVSDQHGIVITENKNTVITPCGGSISNLNLSCLAYPEKRPVDDN 177
126 IFTSTGRFVEMYSIEPEIIMHTEGR--LVIPCKVTSPIITVTL-KKFPDLDTLIPDK 182
178 RISMSEIGFTLPSYMI SYAGNVFCEAKINDETYOSIMYIVVVGVRIYDVLSPHE 237
183 RIMWSRKGFIISMTYKIGILTCETATYNGHLKLT-NYLTRQNTIITDVOISTPRPVK 241
238 LSAGKVLVINCTARTELNVGLDFTWHSPPSKSHKKKIVNRDVKPPPGVAKMFLSTLTIE 297
242 LLRGHTLVLCNTATPLNTRVQMTWSYPDEKKKRASVRRRIDO--SNSHANIIFYVLTI 299
298 SVTKSDQGEYTCVASSGRMIKKNRTFVVRHTKPTFLAFSGMSLYEATVGSQ-VRIPVKY 356
300 KMOKKDKGLYTCVRVSGSPFKSVNYSVHLYDAFTVKRKQOVLETAAGKSYLSMKV 359
357 LSYPAADIKWYRNGRPI--ESNYTMI VGEDELTIMEETERDAGNYTVILNPISEKOSIM 414
360 KAFPEPEVWMLKDGLPATEKSAHYLTRGSLIKVOTBEDAANYITLISIKNSVFKULT 419
415 VSLVNVNPQIGEKALLSPMDS--YQGTMTQTLCTVYANPPLHHIQWTQOLEACSYRP 472
420 ATLIVNVKQIYEKAVSFPDPALYPLGSRQILTCTAYGIPQ-PTIKFMW--HPCNNH 475
473 GOTSYYACKEMWHRVDF-----QGGNKIEVTKNOYALIEGKNTVSTLVIAQANVSALY 526
476 SEARCDPCS--NNESFLIDADSNNMGNRIESTORALIEGKNKASTLVLVADSRISGILY 533

QY 527 KCEAIKAGRGGRVISHVIRGPE-ITVOPAAPTEQESVSLCTADRTFENLTW----- 581
DB 534 ICIASNKVGTGRNISFYITDVPNGFHVNLKRPTEGDLKLSCTYNNKFLYRDVITLAR 593
QY 582 -----YKLSQATSVHMGESLTPVCKNLDAWLNCTMPSNSITNDILIVAFQNASIQ 633
DB 594 TVNNRTMHSISKQKAAITKEHSIT-----LNLITNNVSIQ 629
QY 634 DGDGYCSAQDKTKKRHLVQOLILERMAMITGNLENQTTTIGETIEVTCPSAGNPT 653
DB 630 DSGTACCRANVYTGEEILQKKEITRDEAPVLENLSDHTVALSSSTTLDOHANGVE 669
QY 694 PHITWFKDNETLVEDSGIYLRDGNRLITRRYKEDGGLYTCQACVNLCAZATLFIIE 753
DB 690 PQLTWKNNHKIQOEGGIILGPGSSTFLERTYEBEGYHCKATKQKSVSESAULTYQ 749
QY 754 GAQKTNLEVIILVGTAVIAMFPWLLVILVTRVKNANGELKTYGLSTVMPDELPLDE 813
DB 750 GTSDDKSNLELITLTCTVAAATLFWLLTILIRMKRS--SEIKTDVLSITMDPEVPLDE 808
QY 814 RCERLPYDASKPEFRDRLKGLKPLGRGAFQGVTEADAGIDKATCTVANYKMLKEGT 873
DB 809 QCERLPYDASKPEFAERLKLGLKGRGAFQGVQASAFGIKSPCTRTVAAYKMLKEGT 868
QY 874 HSEHRLMSELKILIHIGHLNVNMLGACTKPGGPLVYVEFCRKNLSTYLRGRNEF 933
DB 869 ASEYKALMTLKIILHIGHLNVNMLGACTQGGPLVYVYCKGNLSYLLKSRDLF 928
QY 934 VPKSKGARFRQKDYGE-LSVDLKRRLDSTSSQSSASGSGFVEKSLSDVEEBASEE 992
DB 929 FLNKDAALHMBPEKMEPEGLQGGKPRLDSTVTSSESFASGFOEDKSLSDVEEBSDG 988
QY 993 LKQDLTLEHLICYSFOVAKGMEPLASRCHRDLAARLILSEKNVYICPGLARDY 1052
DB 989 FYKEPTIMEDLISYFQVARGMEPLSRKCHRDLAARLILSENNVYICPGLARDY 1048
QY 1053 KDPDYVRKGDARPLPKMAPEITIPRVYTIQSDVWSFGVLTWEIFSISAPPGVYKIDE 1112
DB 1049 KMPDYVRKGDTRPLPKMAPEISIPDKIYSTKDSVSGVLTWEIFSISAPPGVYKID 1108
QY 1113 FCRRLKEGTRMAPDYTPREMYOTMLDCWHEDPNORPSFSELVEHLGNLQANAOQDGD 1172
DB 1109 FCSRLEGRMRAPESYFPEYQIMLDCWHRPKERPREALVEKLDGLQANVOQDGD 1168
QY 1173 YVLEPMSETLSMEBDSGLSPSPVS-CMEBEVCDPRHYNTAGISHTYLONSKRKSP 1231
DB 1169 YI--PINALT--GNSGFYSTPAPSEDFPKESISAPKFNSSGSDVRYV--NAFKMSL 1222
QY 1232 VSKTFEDIPLPEEPVKYLPDDSDQTDGCVLASELKTLL---EDRNKLSPSFGMMPSKS 1288
DB 1223 ERIKTFEEL---LPNATSMFDDYQDSDSTLASPMLKAFWTDSKPKASLKDRLATYSKS 1279
QY 1289 RESVASSEGSNOTSGYQS-GYHSDDDTVTYSSDEAGLLKMVDAVHADSGTTLRSP 1344
DB 1280 KESGLSDVSRPFCSSCGHVSEGRFRFY--DHAELERKIACC-----SP 1324

RESULT 9
US-10-821-234-1622
Sequence 1622, Application US/10821234
Publication No. US20050255114A1
GENERAL INFORMATION:
APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit
APPLICANT: Andarmani, Susan
APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704

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; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1622
; LENGTH: 1338
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1622

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Query Match	38.2%	Score	2692.5	DB 6	Length	1338			
Best Local Similarity	43.4%	Pred	No. 6.8e-175						
Matches	597	Conservative	211	Mismatches	470	Indels	99	Gaps	28

Qy	6	LLAAVAMECVERBAASVGLJGDFPHKPSKTOGKOLLITLANTLTIDITORGQDLDWMJPN	65
Dp	9	VLLCALUSCLLITGSS---SSSKLDPELSLKGTOHIOAGOTLLIOCRGEAAHMSLDE	65
Qy	66	AORDEERVLVYE--CGGGSJIFCKTLTITPRVWNGDTGAYKCSYRDV-----DIATSVY	117
Dp	66	MVSKESERLSITKSAICGNNGKQFCSTLLTLNTAQANHGTQYCKYLAVPYSKKKEFESAIY	125
Qy	118	VYVADYRBPFLASVSDQHGIVYITENNKAKTVIIPRGISINLNVSLCARYPEKRVPPGN	177
Dp	126	IFISITGRPFEMYSZEIPEIIMHTGREG--LVIPORVTPSNITVTL-KKFPDLTLIPDGK	182
Qy	178	RISMDSEIGFLPSYMIWISAGVWFCFEAKINDEYOSIMYIVVWGYRYDVLSPHEIE	237
Dp	183	RIIMDSRGFLIISNATYKEIGLITBEAIVNGHLTYCT-NYLTQRQNTIITIDQISITRPYK	241
Qy	238	LSAGEKVLNCTARTELVGLDFTWHSPPSSKSHHKKIVNRDVKPPPGYVAKMFLSTLITE	297
Dp	242	LLRGHTVLNCTATPLNTRVQMTQSYDEKKNRASVRRRIQO--SNSHANIFYSVLTID	299
Qy	298	SVTSDQSELYTVASSGMIKBNRFVFWVHTKPFAPSGMSLSLVEATVGSQ-VAPYKX	356
Dp	300	KQONKDKELYCYRVSQSPFSKSVNTSVHIDAFITVGRKQOVLETYAGKRSYLSMKV	359
Qy	357	LSYPAPDKMYRNGRPI--ESNYTMIVDEDELTIMEVERDAGNYTVILTNPISEMKOSH	414
Dp	360	KAPSPBEVWMLKDGPAPTEKARSARYLTROYSULIKQVTEBDAGNYTIIILSIQSNVFKULT	419
Qy	415	VSLVYVNPPOIGEKALISPMDS--YQGTMOQLTCTVYANPPLHHIOWYWOLEACSTRP	472
Dp	420	ATLIYVNPQOYIEKAVSFSPDPALYPLDGSROLTICTAGGIPQ-PIIKWFM--HPCNNH	475
Qy	473	GOTSPYAKEMRWVDF-----QGANKELEVTKNOYALIEGKNKVSVTVIOAANVSLY	526
Dp	476	SEARCDPFS--NNESFLIDADSNNGNRIESTQOMALIEGKNKASTLVADSKISGTY	533
Qy	527	KCEALINKARGERVISFHVIRGPE-ITVQPAOPTQESVSLICTADNTEFNILTW----	581
Dp	534	ICISNKGTVGRNISFYITDPNGFHNLEKMPTEGEDIKLCTVNFLEYRDVWILLR	593
Qy	582	-----YKLGSAQTSVHMBESLTPYCKNDALMKNGTMSNTDNLILVAFONASIQ	633
Dp	594	TVNNRTHMYSISKQMAITKEHSIT-----LNLITWVNSIQ	629
Qy	634	DQGDYVCSAOQKTKKRLCLVKKOLIILBERMAPITGNLENQTTIGETIEVYCSPASGNT	693
Dp	630	DSGTACAGARVYGEELLOKKEIITIROEAPYLLRINSDHVALISSSTLTDCHANGPE	689
Qy	694	PHITWFKONETLVEDSGIVLADGNENLTIIRVRKEDGELYTQACNVLTGCARAEFLTIE	753
Dp	690	POITWFKNNHIIQOEPGIIILGSGSSTLEFIERTEDEGVYHCKATNOKGSVESSAYLTVO	749
Qy	754	GAOEKTNLEVILVGTAVIAMEFMLLYIYIVTVGRANEGELKCTGYLSIWMDDPLPLDE	813
Dp	750	GTSKDSNELLTLTCTCYAALTFFMLLTLFTRKMKRSS-SEKTIYLSITIMDDPEVLIDE	808
Qy	814	RCERLPYDASKMEPRDRLLKGLPLGRGAFQGVLEADAFGIDKATYCTKTVAYKMLEKQAT	873
Dp	809	QCERLPYDASKMEPRERLLKGLSIRGAGFQGVQASAFGIKKSPTCTVANYMLKEGAT	868
Qy	874	HSERBALMSELKILIHIGHNLNVNLLGACTYRGGPPLVYVYFCFQNLSTYLRCKNBEF	933

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Db      A$EYKALMTEKLTITHGHNLVNVLGACTKQGGPLWVIEYCYKGYMLSYNLKSRDLF  928
Qy      934 VPYKSKARFFQGDYGE -LSVCLKRRLDITSQSSGSAFGYBEKLSVYEAEASGE  992
Db      929 FLNDDALHMEPKKEKMEPGLEGGKRPRLDSVTSSESPASSGPFEDKLSDVEEEDSDG  988
Qy      993 LYKDLPLEHLICYSFOYAKGMEFLASRKCJHRDLAARNILISEKNVYKICDFGLARDIY  1052
Db      989 FYKERTIMEDLISYFOYARGMETLSKCKJHRDLAARNILISENNVYKICDFGLARDIY  1044
Qy      1053 KDPYVRKGDARLPLKMMAPETIFDRYTTIQSDVWSFGVLLMEIFSLGASPPYGVYKIDBE  1113
Db      1049 KNPYVRKGDTRLPLKMMAPESIFDKIYSTRKSDVWSYVLLMEIFSLGSPYGVQMBED  1108
Qy      1113 FCRBLKESTWRARADYTTPEMYQOMLDCWHEHDPNORPFSFSLVEHLGULLQANAOQDKD  1172
Db      1109 FCSRLREEMRRARAEYSTPELVIQMLDCWHDHPKRPFAELVEGLGULLQANVAQDGD  1166
Qy      1173 YIVPMSETLSMEEDSGLSLPTSFVS -CMEEEYCDPFPHYDNTAGISHYLONSRRKSRP  1231
Db      1169 YI--PINAILL--GNSGFYSTPAFSDPFREBISAPRFGNSGSDVAIYV--NAKFMSL  1222
Qy      1232 VSVKTFEDIPLEBPVKYIPDDSGTDSGMVLASEBLKTL--EDBRKLSPEFGMPSKS  1288
Db      1223 ERITFEEL--LPNATSMFDYOGDSSTLLASPLMKFTWTDSPKASKLIDLEVTSKS  1273
Qy      1289 RESVASEGNSOTSGYS -GHSDDTDTTVYSDEGILLKQWDAVHDSGTLTLEBP  1344
Db      1280 KESGJSDVSRSPCHSGSCGHVSEGRKRPY--DHAELEKRIACC-----SP  1324

```

RESULT 10
 US-11-043-693-33
 ; Sequence 33, Application US/11043693
 ; Publication No. US20050281831A1
 ; GENERAL INFORMATION:
 APPLICANT: Davis-Smyth, Terri L.
 APPLICANT: Chen, Helen H.
 APPLICANT: Presta, Leonardo
 APPLICANT: Ferrara, Napoleone
 TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
 TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
 TITLE OF INVENTION: PRODUCTION
 NUMBER OF SEQUENCES: 52
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Dorsey & Whitney LLP
 STREET: Four Embarcadero Center, Suite 3400
 CITY: San Francisco
 STATE: California
 COUNTRY: United States
 ZIP: 94111-4187
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/11/043,693
 FILING DATE: 26-Jan-2005
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/10/105,901
 FILING DATE: 20-Mar-2002
 APPLICATION NUMBER: 09/348,886
 FILING DATE: 01-JUL-1999
 APPLICATION NUMBER: US 08/643,839
 FILING DATE: 07-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Richard F. Treacartn
 REGISTRATION NUMBER: 31,801
 REFERENCE/DOCKET NUMBER: A-63291-3/RPT/NBC
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989

TELEFAX: (415) 398-3249
 TELEX: 910 277299
 INFORMATION FOR SEQ ID NO: 33:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1362 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 US-11-043-693-33

Query Match 38.2%; Score 2691.5; DB 7; Length 1362;
 Beet Local Similarity 43.1%; Pred. No. 8.1e-175;
 Matches 589; Conservative 205; Mismatches 484; Indels 89; Gaps 25;

```

QY 1 MESKALLAVALMFCVETRAASVGL-----TGDFLHPKXSTOKDILITLANTLTQITCGG 55
DB 1 MORGALLCLRMLC-----LGLDGLVSGYSMTPTLSLKGTOHIMQAGTLLHQCRG 53
QY 56 QRDLMFPMNQRDSEERVLVTE--CGGSDSIFCKTLTIPRVVGNDTGAYKSYRDV--- 110
DB 54 EAAHKMSLPBEMVSKESERLITKSACGRNGKQFCSTLTINTQANHTGFSCKYLAVPS 113
QY 111 ---DIASVTVVYVRDYSRPFIFASVSDQHGIVITENKNTVVI PCRGISINLNSLCARY 167
DB 114 KKKETESAIIYFIISDTGRPFVEMYSIPEIIMHTEGRE--LVI PCRVTSPTNITVTL-KKF 170
QY 168 PEKRVPPGNRISMSSEIGFTLPSYIMISAAGVFCBAKINDETYSIMIVVVGRIYD 227
DB 171 PLDTLIPGOKRIIMSRKGIITISNATYKEIGLLCEATVNGHLVYKT-NLTHRQNTTII 229
QY 228 VILSPHEIELSAGEKLVNCTARTELNAGLDFTMSPSKSHKKIVRVDKPPPGYVA 287
DB 230 VQISTPRPVKILRGHTIVLNCATITPPLNTRVQMTSYPDEKPKKASVRRRIQ--SNSRA 287
QY 288 KMFLLSTLTIESVTSKSDQGEYTCVASSGRMIKKNRTFVRVHTKPIAFSGSKSLVEATVG 347
DB 288 NIFSVLTLTDKQKNDKGLYTCRVSGSPFSKSVNTSVRVHENPFISEWLKGPILLEATAG 347
QY 348 SQ-VRIPIVKYLSYPADIKMYNNGRPISBNYTMIVGDELTIMETVERDAGNTVLLTPI 406
DB 348 DELVLLPVKLAAYPPPEFQWYKDGALSGRHS--PHALVLEKVEASTGYTLTLLMSA 404
QY 407 SMEKSHVSLVNVNPPPOIGEKALISPMDSYQYGTQTLTCTVNVNPP.LHNIOMYMOLEE 466
DB 405 AGLRNINLELVNVNPPQIHEKEASSP-SIYGRSRQALTCAYGVPLSLIQMWRPWT 463
QY 467 ACSY-----RPGQTSYPAKCKEVRHVEDFQGNKIEVTKNQVALIEGKNTVSTLVIO 518
DB 464 PCKMFAQRSLRRQQODLMPQCRDWRVATYTDVAVNPISLDTWTEFVGGKNTVSKLVIO 523
QY 519 AANVSALYKCEALNKAAGERIVISFHVIRGPE---ITYQAPAOPEQESVSLCTADNRT 575
DB 524 NANVSAMKCVVSNVQDERLITPYVTTIPDGFTIESKPSSEELLEGGPVLISCADSYK 583
QY 576 FENLTWYLGSOATSVHMGESLTPYCKNLDALMKNGTMSSTNDI-----LIYAF 627
DB 584 YEHLRWYLNLSLTHDAHGNPLLDCKNV---HLFATPLASLEEVAPGARHATLSISI 639
QY 628 QNASIQDGDYVYCSAQDKTKRKRLVQLIILERMAMITGNLENQTTIGETIEVTCP 687
DB 640 PRVAPREHGYVCEVQDRSRSHDKCHKYLSVQALEAPRLNTLDDLNVNSDSLMOQL 699
QY 688 ASGNPTPIITPKNETLVEDSGIYLBDGNRLTIRVRKEDGGLYQACVNLGCAAE 747
DB 700 VAGAHAPSIWYKBERLLEKSGVDLADSNQLSQVRABEADAGYLLSVCAKCCVSS 759
QY 748 TLFIIEGAEKTNLEVIILVGTAVVAMFFMLLVLTVRKANGELKGTGLSTVMPD 807
DB 760 ASVAVGESDEKSMETIVILVGTAVVAFVFWULLLIIFCMRRPRADADKITGLSLTIMPG 819
QY 808 ELPLDERCERLPYDASKWEPFRDLKGLGRGAFGVIEADAGIDKTAICTKTVAVKM 867

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DB 820 EYPLEEOCEYLSYDASQWEPFRERLHGLVIGYAGFGKVVAEASFGIHKSGSCDTVAVKM 879
QY 868 LKEGATTHSEHRLAMSEIKLIIHGHIANVNLIGACTPGGLMYIVECKRGINLSTYLR 927
DB 880 LKEGATTHSEHRLAMSEIKLIIHGHIANVNLIGACTPGGLMYIVECKRGINLSTYLR 939
QY 928 GRNFEFVPYKSG---ARFROGKDYVGLS-VDLKR--RLDSITSSQSSASSGFVEEKS 980
DB 940 AKRDAFSPCAEKSPRQGRFRA---MVELALDRLRRPSSDRVLPARSKTEGGARRAS 995
QY 981 LSDVEEBEASELYDFLTLEHLICYSFOVAKGWEPLASRKICIRHDLAARNILSEKNV 1040
DB 996 ----PDGEABEDLWLSPLTMEIDLVCYSFOVARGMEFLASRKICIRHDLAARNILSESDV 1050
QY 1041 KICDFGLARDIYKDDPYRKGBARLPKMKABETIFDRYTTOSDVSNGVLLMELFSG 1100
DB 1051 KICDFGLARDIYKDDPYRKGBARLPKMKABETIFDRYTTOSDVSNGVLLMELFSG 1110
QY 1101 ASPYGVAKIDEEFCRLKEGTMRAPDYTTPEMYOTMLDCMHEDPNQRPFSSELYEHLGN 1160
DB 1111 ASPYGVQVINEBFQRLADGTFMRAPDELATPAIRIMLNCWGDPKARPAFSELYEHLGD 1170
QY 1161 LIQANAQDDKDYIVLPMSETLSMEEDSGLSLTPSPVSCMEEEVCDP-----KPHY 1212
DB 1171 LLOGRGLQEEBEVCMAPRS--SQSSESGFSQVSTWALHIAQADADESPSLQRHSLAARY 1229
QY 1223 DNTAGISHYLNQSKRKSAPVSKTFEDIPLBEPKVIYPPDSQTSQGVLASSEELKTED 1272
DB 1230 YNWVSFPCCLARGAETRGSSRKTKTEEPFM-TPPTYKGSVDNQTSGVWLASEEPEQIES 1288
QY 1273 RNKLSPSFG---GMMPKSRRESVASEGSNQ-----TSGYOSGYSD 1310
DB 1289 RHROSGSFCCKRGQGNVAVTRAHPDSQGRRRRPERGAGCGGYFYNSE 1335

```

RESULT 11 US-11-043-693-32

Sequence 32, Application US/11043693
 Publication No. US20050281831A1

GENERAL INFORMATION:

APPLICANT: Davis-Smyth, Terri L.

APPLICANT: Chen, Helen H.

APPLICANT: Presta, Leonardo

APPLICANT: Pereira, Napoleone

TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL

TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR

NUMBER OF SEQUENCES: 52

CORRESPONDENCE ADDRESS:

ADDRESSEE: Dorsey & Whitney LLP

STREET: Four Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: California

COUNTRY: United States

ZIP: 94111-4187

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/11/043,693

FILING DATE: 26-Jan-2005

CLASSIFICATION:

Prior Application DATA:

APPLICATION NUMBER: US/10/105,901

FILING DATE: 20-Mar-2002

APPLICATION NUMBER: 09/348,886

FILING DATE: 01-JUL-1999

APPLICATION NUMBER: US 08/643,839

FILING DATE: 07-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Richard F. Trecartin

TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: VARIANT
LOCATION: 204
OTHER INFORMATION: Xaa = Any Amino Acid
US-11-092-168-10

Query Match 22.7%; Score 1600; DB 7; Length 316;
Best Local Similarity 83.3%; Pred. No. 1.4e-101;
Matches 305; Conservative 5; Mismatches 6; Indels 50; Gaps 1;

QY 804 MDDELPLDERCERLPYDASKEWEPFRDLKGLKRGAFGGVTEADAFGIDTATCKTV 863
DB 1 MDDELPLDERCERLPYDASKEWEPFRDLKGLKRGAFGGVTEADAFGIDTATCKTV 60
QY 864 AVKMLKEGATSEHRLMSELKILIHGHNLVNNLGACTPGGFLMIVFCKFGNIS 923
DB 61 AVKMLKEGATSEHRLMSELKILIHGHNLVNNLGACTPGGFLMIVFCKFGNIS 120
QY 924 TYLRGRNEFVYKSGARFROGKDYVGLSVDLKRLDISITSSQSSASSGFVEEKSLS 983
DB 121 TYLRGRNEFVYKSGARFROGKDYVGLSVDLKRLDISITSSQSSASSGFVEEKSLS 134
QY 984 VEEBESAESELYKDFLLEHLICYSFQVAKGMEFLASRKCIHRDLAARNILSEKNVVKIC 1043
DB 135 ---VAPEDLYKDFLLEHLICYSFQVAKGMEFLASRKCIHRDLAARNILSEKNVVKIC 190
QY 1044 DFGRLADYKDPDYRKGPAPLPKMAPEITFDYVYITQSDVWSGVLMEIFSLGASP 1103
DB 191 DFGRLADYKDPDYRKGPAPLPKMAPEITFDYVYITQSDVWSGVLMEIFSLGASP 250
QY 1104 YGVKIDEEFCRLKSGTRAPADYTTPEMYOTMLDCHEHDNORPSFSELVEHIGNLIQ 1163
DB 251 YGVKIDEEFCRLKSGTRAPADYTTPEMYOTMLDCHEHDNORPSFSELVEHIGNLIQ 310
QY 1164 ANAQOD 1169
DB 311 ANAQOD 316

RESULT 13
US-11-043-693-3
Sequence 3, Application US/11043693
Publication No. US20050281831A1
GENERAL INFORMATION:
APPLICANT: David-Smyth, Terri L.
APPLICANT: Chen, Helen H.
APPLICANT: Presta, Leonard
APPLICANT: Ferrara, Napoleone
TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
TITLE OF INVENTION: PRODUCTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dorsey & Whitney LLP
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/043,693
FILING DATE: 26-Jan-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/105,901
FILING DATE: 20-Mar-2002

APPLICATION NUMBER: 09/348,886
FILING DATE: 01-JUL-1999
APPLICATION NUMBER: US 08/643,839
FILING DATE: 07-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Richard F. Treccati
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 396-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 777 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-11-043-693-3

Query Match 16.8%; Score 1186.5; DB 7; Length 777;
Best Local Similarity 34.5%; Pred. No. 5.7e-73;
Matches 277; Conservative 127; Mismatches 333; Indels 65; Gaps 15;

QY 1 MESKALLVAFVFCVETRAASVGL-----TGDFLPPKLSSTOKDILITLANTLQITCRG 55
DB 1 MORGALCLRLMLC-----IGLDGLVSGYSMTPTLNTSEHVIDTGSLSISCRG 53
QY 56 QHDLMLPMAQ-----RDESERLVTECGGDS-IFCKTLTI PRVGNDTGAYKCSY 107
DB 54 QHLEMAVGAQEAATGDKSEDTGVVRDCGTARPYCKYLLHEVYANDTGSVVCY 113
QY 108 RDV-----DIATYVYVYRDRSPFIASVSQHGIVITENKAKTVIIPCGLSINLV 161
DB 114 KYIKARIGTTAASSYVFROPEOFINKPDT-----LVVRKDMVWPCVLSIPGLNV 167
QY 162 SLICARYPEKRFVDDGNRISMDSEIGFTLPSYVMSYAGWFCFAKINDETYSIMYIVVV 221
DB 168 TL--RSQSSVLPMDQEVWDDRGMLVSTPLHDLALYOCETTTGGDDFLSNPLVHT 225
QY 222 GYRIYDVILSPHEIELSAGEKLVNCTARTELAVGLDTWHSPPSKHKKIVNRDVKP 281
DB 226 GNELYDQLPRKSELVGEKLVNCTVMAEFNGSVTFDMYDPKQABRGKWPBRSQ 285
QY 282 PFGTYAKMFLSTLTIESYTKSDQGYTCVASSGMKIKNRTFVRYVHTFPLAFSGMSL 341
DB 286 QTHTELS---SILTIHNSOHLDSYVCKANNGIORFRESTEIVIHENPFISVEMLKGP 342
QY 342 VEATVSGQ-VRIPIVYVLSYPAPADIKWYRNGRIENMIYVDELTIMEVTERDAGNTV 400
DB 343 LEATIGDELVKLPVLAIVPPEFOWYOGKALSRHS---PHALVLEVTASGTITL 399
QY 401 ILTNPISMEKOSHVSILVNNVPQIGERKALISPMDSYOGTQTLCTVYANPLPHIQW 460
DB 400 ALMNSAAGLRNINISILVNNVPQIHEKEASP-SYRHSQAALTCTAGVPLSLSQ 458
QY 461 YGLEEACSY-----RPGQTSYACKEMRWEDFGGKIEVTKQVALIBGNKT 512
DB 459 HWRPWTCKMFAQSRSLRRROODLMPQCRDRAVTTODAVNPISLDTTEVEEKNKT 518
QY 513 SLTVIOANVSALYCEALINKAGERVYSIFVIRGPE---ITVPAQPTQESVSLIC 569
DB 519 SKLVIOANVSAMKCVSNKVGDERLLIFVYTTIPGFTTESKPSSELLEGQVPLISC 578
QY 570 TADRNTFENLTWYKLSQATSVHGESLTPVCKNDALMKLNGTWFNSSTNDI----- 622
DB 579 QADSYKYELHWRMLNLTLDHAGNPLLDCKNV---HLFATPLAASLEVVAGARHA 634
QY 623 -LIYAFQNASLQDQDYCSAODKTKRGKCLVKOLILERMAMPITGNLQTTIGET 681
DB 635 TLISIPVABEHGHVYCEVODRRSHDKCHKYTSVALLEAPRLTONLTDLVNVSDS 694

[illegible]

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RESULT 14
US-10-995-561-829
; Sequence 829, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 829
; LENGTH: 1451
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(1451)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-995-561-829

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Query Match	16.5%	Score 1162	DB 6	Length 1451
Best Local Similarity	25.3%	Pred. No. 6.3e-71		
Matches 347	Conservative 198	Mismatches 428		
		Indels 399	Gaps 41	

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Qy 32 KLSUQXOKILITLANTLLOITGRQORDLWMNARDBEERLVYBEGGSDSIFCKTTL 91
Db 28 PSILPENNEKVQVUNSSFSRLCRGSEBSWQJPMSEESSD--VEINNEENSGLFYVLE 86
Qy 92 IPRVGNNDGAYKSCYRVDIAST-----VVVVVVDYKSPFI--ASVSDOHGIVYTENK 144
Db 87 VSSAAHATGLYTCYNNHTQTEBNELEGRHIYIYVDPDPAFVPLAMTDYLVIV-----ED 142
Qy 145 NKTIVVIPRGSLNUNSLCARYPEKRFPPDGNRISWDBEIGTLETSYMI SYAGMVFCEA 204
Db 143 DDSALIPKRTIDPEFPVL--HNSGVVP-----ASYDSRQGFN-GTFV--GPYICEA 191
Qy 205 KINDETOSIMYIVVVGRIYDVLSPRHEIELA-----GEKLVANCTARTELANG 257
Db 192 TVKGKKFQTI-----PENVYALAKATSELDMEALKTIVYKSGEITIVTCAFNNEVD 244
Qy 258 LDFTHMSPPSKSHKKIVNRDVKPPRPGYAKMFLSTLTLESTYKSQGEYTCYA--SSGM 316
Db 245 LQWY--PGEKKGGITMLEEIKVPST--KLVTYLTVEPEATVKOSGDECAARATRE 298
Qy 317 IKR-NRTFVRVATKRFPIAFSGSMKSLVEATVGSQVRI PKYLSYSPAPDIKWTNGRPIS 375
Db 299 VKEMKQVITISVEKEFIEIKPFSQOLEANLHEVKNHFVEGRVAPPRISMLKNNTLLE 358
Qy 376 NYTMVGD-----ELTIMEVTERDAGNYVILTNPISMKEKOSHMSLVNVVPO 424
Db 359 NLTEITTTVEKIQEIRYRSKTLIRAKEDSGHYITIVAOQNEAV--KSYTFELITVP-- 414
Qy 425 IGEKALISPMDSYQYGT--MQLTCTVYANPPLMHTIOMYUQLEBAGCYRPGQTSVPYACEM 483
Db 415 ---SSILDLVDHHSSTGGQYRCHT--ESTPLDIE-----MLCKD-- 452
Qy 484 RHVEDFQSGNKILEYTKQYALIEGKNKYVSTLVIOANYSALYKCEAIKKAGGERVIF 543
Db 453 -----IKKCNNE-----TSWTLTIANNSNI----- 472

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0Y 544 HVIRPELTTPQAPROPTQEOESVSLCTADRTNFEMLTWKGLSQATSVMGESLTPVCN 603
Db 473 -----ITETHSDRSTVEG----- 486
0Y 604 LDALWKLNGTWFNSNTNDLLIVAFONASLQDQDVYCSADQKTKRHCGLVQLITLERN 663
Db 487 ----- 486
0Y 664 APMITGNLENOTTITGETIEVTCPSAGNPPTHITWPKONETLVEDSGIVLRDGNRLTJR 723
Db 487 -----RVTPAKVEETIA----- 498
0Y 724 RVKKEPDGGLYTCQACNVLCGARAETLFIIEGAQEKTNLEVIILVGTAVIAMFMYLLVY 783
Db 499 -VR-----CLANNLLGAENREKELVAPTLRSELTVAAALV-LLVVILSLVLYI 548
0Y 784 LRTVGRAN-----EGELKTGYLSIWMPPDELPLERCBRLPYDASKMEFPDRDLGKPE 837
Db 549 WKOKRPRYIIRKRVIVESISPDGHEIYVDPMLQPYD-----SRMEFPDGLVGLGV 598
0Y 838 LGRGAFGVIEADAFGIDKATCKTAVAKMLKEGATSEHRALMSELKILIHIGHLVV 897
Db 599 LGSAGFGVYEGTVAGLSRQPVKMAVAKMLKPTARSEKQALMELKIMTHLGPLNIV 658
0Y 898 NULGACTPGRGPLMATIVEFCFKGULSTYLRGRNEFV--PKSKG----- 940
Db 659 NLLGACT-SGPYIITTECYGDLVNLHKNRDSFLHHPEKPKKELDIFGLNPADEST 717
0Y 941 -----ABRQCKDQVYGEISVDLKRLDSITSSQSSASSGF-----VEKSLDVE 985
Db 718 RSYVLSFENNNDYIDMKQADTTQYVPMLEKREKYSKDIOKSLYDRPASYYKKSMLDSE 777
0Y 986 EEEASSELYKDFLTLEHLICYSFOYAKMEFLASRCKIHRDLAANNILLSEKNVYKICDF 1045
Db 778 VKNLLSDNSGLTLLDLDSFTYQVARGMEFLASNGVCHRDLAANNVLLAQKIKYKICDF 837
0Y 1046 GLARDIYDOPYVKKGDKARLRLKMAAETITDRVTTTSDYVSGFVLLMEIFSLGASPP 1105
Db 838 GLARDIMDSYVSGSTFELPVKMAAPESIFDNLTYTLLSDVSGYLLMEIFSLGTPP 897
0Y 1106 GVKLDEECRRLKGTWRBARDYTPPEVYQTMLOCMHEDPNORPESFELVHGLNLTQAN 1165
Db 898 GMAVDSTTYNKKISGYRAKPDHATSEYELVWKCMWNSPEKRPSPYHLSLSEVNLPCQ 957
0Y 1166 AQODQK---DYIVLPMSELSMEEDSLSTPSPVSCMEEBEVDPKFYHNT-AGISH 1220
Db 958 YKSYEKIHLDFLMSDHPAVARMAVDS-----DNATIGVY 993
0Y 1221 YLQNSKRR-----SRPVSKTEBDIPLEBPVKVYIPDSDQTSQMWLASSELKLTLEDR 1273
Db 994 KNEEDKLMDEGGLDECRLSADSGYIIPJ--PDIDPVEE-----EDLGKR 1037
0Y 1274 NKLSPREGMWPKSRRESVASSEGSNQTSGYSGHSDDTDTTVYSDEAGL 1324
Db 1038 NRHS-----SQTSSESAIETGSSSSTFK--REDETIEDIDMMDIGI 1078

RESULT 15
US-11-043-693-1
; Sequence 1, Application US/11043693
; Publication No. US20050281831A1
; GENERAL INFORMATION:
; APPLICANT: Davis-Smyth, Terri L.
; APPLICANT: Chen, Helen H.
; APPLICANT: Preesta, Leonard
; APPLICANT: Ferrara, Napoleone
; TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dorey & Whitney LLP
; STREET: Four Embarcadero Center, Suite 3400
;

```

CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/043,693
FILING DATE: 26-Jan-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/105,901
FILING DATE: 20-Mar-2002
APPLICATION NUMBER: 09/348,886
FILING DATE: 01-JUL-1999
APPLICATION NUMBER: US 08/643,839
FILING DATE: 07-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Richard F. Treccarlin
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 758 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-11-043-693-1

Query Match 14.9%; Score 1046.5; DB 7; Length 758;
Best Local Similarity 32.2%; Pred. No. 1,8e-63;
Matches 254; Conservative 130; Mismatches 334; Indels 71; Gaps 17;

QY 6 LLAVALMFCVETRAASVGLTGDHLHPKSLSTQKDIILLTANTLTIQTCRGDRDLMLPN 65
DB 9 VLLCALLSLCLLTGSS---SGSKLDKPELSLKTQHIMAGQTLHLCRGSAHHKMSLPE 65
QY 66 AORSEERVLTE--CGGDSIFCKTLITIPRVGNDTCAIKCSYRDV-----DIASIVY 117
DB 66 MVSKESESLSTKSAACGRNGKQFCSTLTLTNTAQAHTGFYSCYLAVPTSKKKESTESAIY 125
QY 118 VYVRDYRSPFIASVSDQGIYVTENKNTVYIPCRGISNLNLSLCARYPEKRFVDPGN 177
DB 126 IFISTGTRPFVEMYSIEIIMTEGRE--LVIPCRVTSPIITVTL-KKFLDITLIPDOK 182
QY 178 RISMDSEIGFTLLPSYMSYAGNVFCEAKINDETYSIMYIVVVGRIYDVILSPHEIE 237
DB 183 RIIMDSRKGFIIISNATYKEIIGLTCEATVNGHLXT-NYLTHRGQNTIIDVQISTPRPYK 241
QY 238 LSAGEKLVNCTARTELAVGDLFTWHSPPSKSHKKIYVRDYKPPPGTVAKMFLSTLTIE 297
DB 242 LLRGHTLVNCTATPLNTRVQMTWSYPDEKMKRASVRRIDQ--SNSHANIFYSVLTID 299
QY 298 SVTKSDGEYTCVASSGRMIKRNRTFVRVHTKPFIAFGSMKSLVEATVGSQ-VRIPIYK 356
DB 300 KMQNKDKGLYTCRVASGSPSKSVNTSVHIDKAFITVKKRKOQVLETVAGKRSYRLSMKV 359
QY 357 LSYPAIDIKWRNGRPI--ESNYTMIVGDELTIMEVERDAGNTVILTNPISMKQSHM 414
DB 360 KAPSPPEVVMLEKDGIPATEKSARVLTGRGSLIKDVTEDAGNTIILSIKQSNVFKULT 419
QY 415 VSLVNVNPQIGEKLLISPMDS--YQGTMOFLTCTVANPPLHIOMYWOLEACSYRP 472
DB 420 ATLIVNVKQIYEKAVSSFPDAPALYPLGSRQILTCTAYGIPO-PTIKFW--HPCNNH 475

QY 473 GQTSFYACKERWHEDE-----QGANKEIVTKNOYALIEGKNKTVSTLVIOANVSALY 526
DB 476 SEARCDPFS--NNESFILDSDNMGNRIESTITQMAIIEGKNKMASTLVVADSISGIY 533
QY 527 KCEAINKAGRGERYISFHVIRGPE-ITYQPAAQPTQESVSILCTADRNTFENLTW---- 581
DB 534 ICIAENKVGTVGRNISFYITDVPNGFHVNLKEMPTREGEDLKLSTVKNKFLYRDVTWILLR 593
QY 582 -----YKLGSOATSVHMGESLTPVCKNDALMKLNGTWFSNSTNDIIVAFONASIQ 633
DB 584 TVNNRTMYSISKQMAITKEHSIT-----LNLITMVSILQ 629
QY 634 DQGDYVCSAODKTKKRRCLVLYKQIILIRMAPMITGNLENQTTIGETIEVTCPASGNPT 693
DB 630 DSGTACARAVNYTGEIELQKKEITIRQGEAPYLLRNLSDHVALSSSTLIDCHANGVPE 689
QY 694 PHITFKONETLVEDSGIVLRDGNLITIRVRKEDGILYTQACNVLGCAEAETLPIIE 753
DB 690 FOITFKNNHKIQCPGIIIGPSSSTLFIERYTEDEGVYCKATNOKGSVSSAYLTVQ 749
QY 754 GAQEKTNLE 762
DB 750 GTSDESNFE 758

Search completed: January 30, 2006, 12:04:04
Job time : 38 secs

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